



Next generation VRV system featuring VRT now with Airside Control



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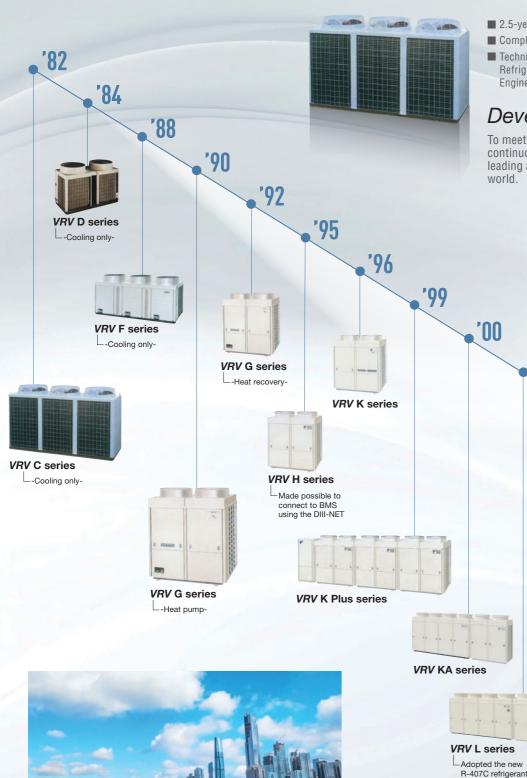
New Products Information



The 1st Generation

VRV series released in 1982

<The birth of innovative products that changed the history of air conditioning technology>



- 2.5-year development term
- Completion of development in May, 1982

VRV III series

VRV II MA series

VRV II M series

_Adopted the new R-410A refrigerant

■ Technical award of Japan Society of Refrigerating & Air-conditioning Engineers in 1983 Development history To meet the needs of the times, we've been continuously developing technologies as the leading air conditioning manufacturer in the world. '00 '02 '04 '05 '06 VRV-WII VRV II-S VRV III-S VRV KA series

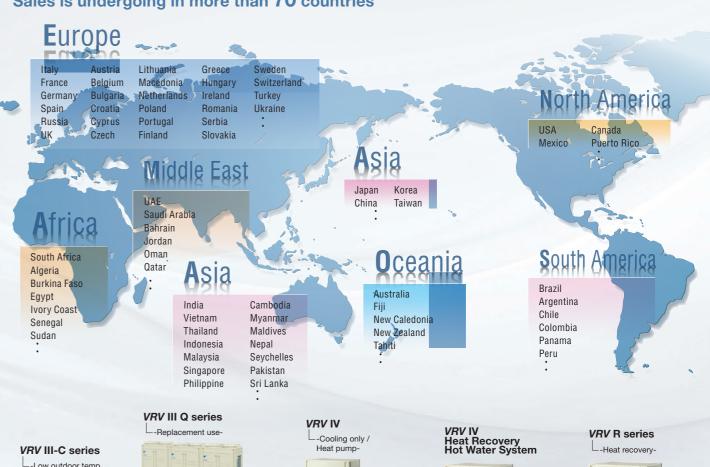


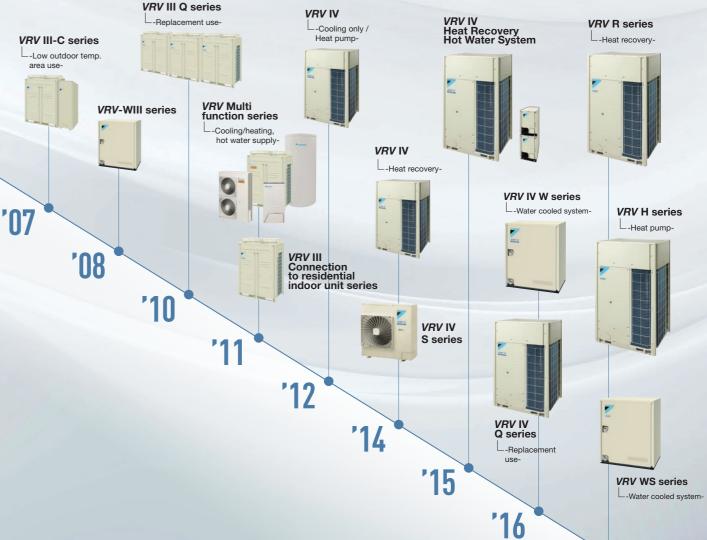


* VRV is a trademark of Daikin Industries, Ltd.

Expansion of the country of sale

Sales is undergoing in more than 70 countries





VRV User Benefits



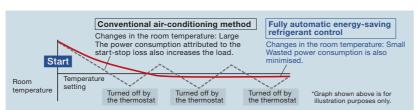
First launched in 1982, the Daikin VRV system has been providing comfort and reliability to building owners and their tenants for over 35 years. Leveraging the latest in energy-saving technology, Daikin has further improved energy savings while reducing space requirements. This added value is one reason why Daikin is the right choice for building owners.

Energy saving & comfortable environment

Based on the idea of using only as much space as absolutely required, Daikin first launched its commercial multi-split air conditioning systems in 1982. Since then, customers have benefitted from much increased energy efficiency. Now, our revolutionary new systems dramatically reduce energy with VRT Smart Control. During operating periods, control programs ensure thermal loading is generally low, thus boosting energy efficiency. This greatly reduces the amount of energy required for building air conditioning.

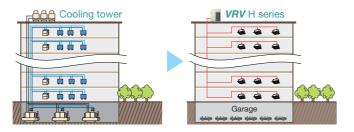
While optimally operating at low load, it maintains a comfortable indoor environment.





Efficient space utilisation

Daikin VRV system can be used to develop a large-scale air conditioning system on a single refrigerant system, thus reducing the space required for air conditioning equipment. Because the difference in height between the indoor and the outdoor unit can be as large as 90 m, even with a 20-storey building all of the outdoor units can be placed on the rooftop for more efficient utilisation of space.



High reliability

Double backup operation

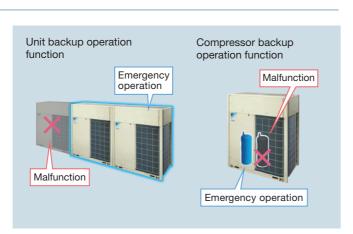
Daikin VRV outdoor unit goes beyond just highly reliable compressors with a backup system that ensures continued operation.

Unit backup

Should one outdoor unit in a multiple unit system fail, the other outdoor units switch to emergency operation. If for some reason a failure occurs, the system for that unit does not completely stop, and air conditioning is maintained.

Compressor backup

Since units are equipped with two compressors, even if one compressor fails, the other compressor carries on in emergency mode.





Comfortable environment

While operating optimally at low load, VRT smart operation maintains the indoor temperature and ensures a comfortable environment.



Residential indoor units

Because indoor units developed for residential use can be connected, it is possible to realise quiet operation.

You can include indoor units that operate at min. 22 dB(A), and to reduce the noise of refrigerant passing through the piping by remotely installing an BP unit.



90 m

CONSULTANT and DESIGN OFFICES

Varied lineup of models

System applications range from family residences to large commercial buildings. With various types of indoor units available, comfortable airflow is ensured in every space.

Long piping provides more flexible system design

Greater design freedom is provided because equivalent piping between indoor and outdoor unit can run as large as 190 m and reach a maximum height difference of 90 m.

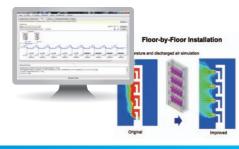
Compatible with engineering software

We at Daikin provide the software, the simulation results, and drawing materials to support the business-information modeling (BIM) currently entering the mainstream in construction industries.

Energy efficient

Daikin's innovative energy-saving technology helps you to achieve your green building solution.







Lightweight and compact large-capacity single units

Systems can be configured with single modules providing up to 20 class. The lightweight and compact bodies are both easy to install and can be transported in elevators.



Simple piping, easy wiring

The REFNET piping system and DIII-NET system simplify refrigerant piping and control wiring installation.

P.81

P.105

Wide variety of series models to supply total air solutions

From residential houses to large buildings, and from newly constructed to renovated buildings, **VRV** system meets a wide range of air conditioning needs and supplies total air solutions.

IRI H SERIES

Heat Pump



RXYQ-A

| (| |
|---------------|----------------|
| 3-phase 4-1 | wire system, |
| | |
| 1 380-415 V/3 | 80 V, 50/60 Hz |

| - | F |
|--------------------------------|---|
| wire system, 80 V, 50/60 Hz | 5 |

| Lincup | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| class | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | 54 | 56 | 58 | 60 |
| High-COP Type | | | | • | | | • | • | • | | • | • | • | • | • | • | | | | | | | | | | | | |
| Standard Type | • | • | | • | | | | | • | | | | • | | | • | | | | | | | • | • | • | | | |

Saves space and delivers

The VRV H series achieves high efficiency in a design that is more compact and lightweight. It also offers comfort, easy

installation, and high reliability to meet the needs in various

Maximum comfort via simultaneous

The VRV R series enables simultaneous operation of cooling

controlling the BS unit. This series also substantially improves

Especially designed for

small offices and shops

residential houses,

VRV IV S series is the system that aims to provide sufficient capacity,

along with the compact size required by residential houses, small offices

and shops. Outdoor units are designed to be slim and space saving, and

offer 6 models to select from, providing the power that suits your needs.

and heating within a single refrigerant piping circuit by

energy efficiency by recycling exhaust heat.

excellent performance

URVIR SERIES

Heat Recovery



REYQ-TA

Lineup

| | Н |
|------|---|
| tem, | _ |

| 3-phase 4-wire system, |
|------------------------|
| |
| 380-415 V, 50 Hz |

| class | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | 54 | 56 | 58 | 60 |
|-----------------|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| High-COP Type | | | | | | | | | | | • | | | | | | | | | | | | | | | | | |
| Otto and Time a | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

cooling and heating

URU IV S SERIES

Heat Pump



RXYMQ-A

Lineup

| 5-6 class | 1-phase, 220-230 V/220 V, 50/60 Hz | Ì |
|-----------|------------------------------------|---|
| -9 class | 3-phase, 380-415 V, 50 Hz | I |

| class | 3.5 | 4 | 5 | 6 | 8 | 9 |
|-----------|-----|---|---|---|---|---|
| leat Pump | • | • | • | • | • | • |
| | | | | | | |

VRV IV Q SERIES

Heat Pump



380-415 V, 50 Hz

P.13

P.31

P.53

VRV IV Q series Heat Pump **RQYQ-T**

Lineup



380-415 V. 50 Hz

| | class | | 6 | 8 | 10 | 12 | 13 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 |
|----------------------------|----------|----------------------|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| VRV IV Q | Heat | Standard Type | | | | | | | | | | | | | | | | | • | | | | | | |
| series | Pump | Space Saving Type | | | | | | | | | | | | | | | | | • | | | | | | |
| VRV III Q series | Heat Rec | overy | | | • | | | | | | | • | | | • | | | | | | | | | | |

For quick & high quality

VRV unit, can be installed using existing

refrigerant piping, so renovation of the air conditioning system can be carried out quickly

activities and users in the building.

VRV IV Q series/VRV III Q series, a replacement

and smoothly. This minimises inconveniences to

replacement use

URU W SERIES

Heat Pump / Heat Recovery



RWEYQ-T

3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz

Water cooled system suitable for tall multi-storey buildings

Water cooled VRV IV W series utilises water as a heat source. The temperature of heat source water can be from 10°C to 45°C, and outdoor air temperature does not affect cooling capacity. The outside unit is compact and saves space in the machine room.

Lineup

| class | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 |
|---------------|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Heat Pump | | | | | | | | | | | | | | | | |
| Heat Recovery | | | | | | | | | | | | | | | | • |

URY WS SERIES

Heat Pump



RWXYQ-A

Water cooled system suitable for residential houses

Water cooled VRV WS series outside units are designed to be compact and lightweight, and single phase power supply enables simplified installation in residential applications.

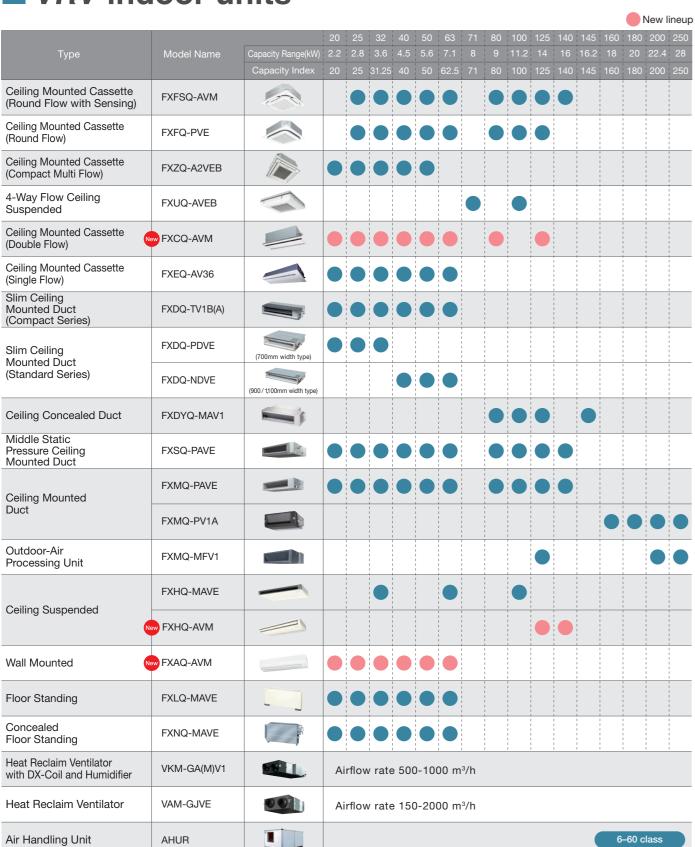
Lineup

| class | 3 | 4 | 5 | 6 |
|-----------|---|---|---|---|
| Heat Pump | | | | |

Wide range indoor unit lineup creating

various comfortable airflow

■ VRV indoor units



Residential indoor units with connection to BP units

| | | | 20 | 25 | 35 | 50 | 60 | 71 |
|--|------------|---------------------------|-----|-----|-----|-----|-----|-----|
| Туре | Model Name | Rated Capacity (kW) | 2.0 | 2.5 | 3.5 | 5.0 | 6.0 | 7.1 |
| | | Capacity Index | 20 | 25 | 35 | 50 | 60 | 71 |
| Ceiling Mounted Cassette (Compact Multi Flow) | FFQ-BV1B | | | | | | | |
| Slim Ceiling Mounted Duct | FDXS-CVMA | (900/1,100 mm width type) | | • | | | | |
| Wall | FTXS-KVMA | | | | | | | |
| Mounted | FTXS-KAVMA | | | | | | | |

Note: For indoor units connectability, please refer to the indoor unit product lineups under individual outdoor unit series.











Advanced technologies for greater energy savings

By uniting advanced software and hardware technologies, VRV H Series is able to attain greater heights in energy savings and comfort.

VRT Smart Control (Fully Automatic Energy-saving Refrigerant Control)

Software technology

Daikin's VRT Smart technology takes comfort and energy performance to the next level. Building on our variable refrigerant temperature technology which enables the evaporating temperature to adjust to meet the varying load. VRT Smart is now also able to automatically adjust the indoor unit airflow rate (Airside Control) to ensure optimal comfort and energy performance is delivered at all times.

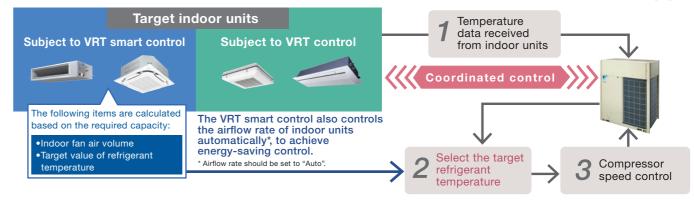


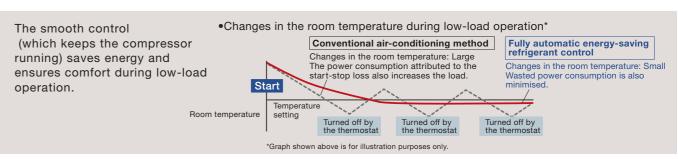


Function

Overview of the control (system control flow)

Different automatic energy-saving refrigerant control applies depending on the indoor units connected.





- •For the classification of indoor units (VRT smart control and VRT control), refer to pages 25–26.
- •If a system has indoor units subject to both VRT smart and VRT control, the system is operated under VRT control.
 •If a system has both outdoor-air processing air conditioners and outdoor-air processing type indoor units, VRT smart control and VRT control are disabled

Optimum utilisation of VRT Smart Control and VRT Control

VRT Smart and VRT control is most effective when all the indoor units operate under low load conditions in a similar manner. Low load conditions is the time when room temperature approaches set temperature.

For this reason, please note the following to maximise efficacy.

•When selecting indoor units

Indoor units are installed in a system so that they operate largely under the same conditions.

Energy efficiency decreases for the installation patterns indicated below. Example:

- 1) A load imbalance occurs because an indoor unit on the same system is installed near the perimeter of the room or in the vicinity of a room entrance.
- 2) Different operating hours for indoor units.
- 3) Energy efficiency decreases when the set temperature of a specified indoor unit is set to an extreme during cooling operation. E.g. 18°C



Greater energy savings during low-load operation

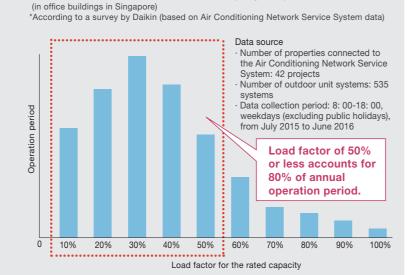
The key to innovative energy savings is to increase efficiency during low-load operation.

Using data gathered from actual operation, Daikin discovered that air conditioning systems operate at a load factor of 50% or less for 80% of their annual operation period.*

This inspired us to develop new technologies to enhance energy efficiency during low-load operation.

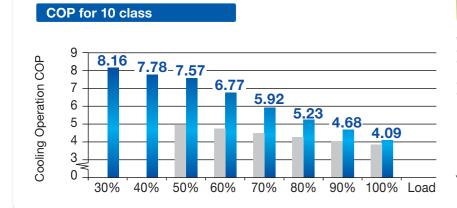
Utilising these technologies, Daikin's new VRV H series raises the standard of energy efficiency.

- * Main factors for frequent operation at low load of 50% or lower
- Because individual control is possible for VRV system, air conditioning is turned OFF to unoccupied rooms such as conference rooms, private rooms, and storage rooms.
- Maximum number of people assumed at the time of design has
- There are zones without tenants such as the tenants' office



Correlation between the load factor for the rated capacity and operation time

Higher Coefficient of Performance (COP)



Annual power consumption 14%* lower

* Simulation conditions:

· Location : Bangkok, Thailand

System: Outdoor unit (10 class) x 1

Indoor unit (2 class, Round Flow with Sensing type) x 5 Operation time: 8:00-20:00 5 days/week

New model: RXYQ10A (VRV H series) Conventional model: RXYQ10T (VRV IV)

VRV IV (RXYQ10T)

VRV H SERIES

*Cooling operation conditions: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB

New Scroll Compressor*

Hardware

New Scroll

Compressor

Refrigerant leakage is minimised during low-load operation.

Operational loss due to refrigerant leakage is reduced with the inclusion of a proprietary back pressure control mechanism to ensure stable low-load operation.

 Compressor efficiency* New compressor Conventional compressor The back pressure control mechanism increases the efficiency during low-load operation.

*Graph shown above is for illustration purposes only.

Back pressure control mechanism

Conventional mechanism

The orbiting scroll is engaged by the pressure difference between high and low pressures

The force engaging the orbiting scroll decreases during low-load operation, resulting in compression leakage from movable parts.



The force pressing the orbiting scroll decreases

during low-load operation.

Intermediate pressure adjustment port

The intermediate pressure (back pressure) optimises the pressure on the orbiting scroll depending

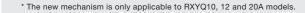
New intermediate pressure mechanism

The pressure on the orbiting scroll is optimised according to operating conditions. As a result, the orbiting scroll has been stabilised to increase efficiency during low-load operation.



The intermediate pressure maintains pressure on the orbiting scroll during low-load operation.

on the operating condition.



Advanced oil temperature control

Standby power consumption is reduced

The advanced oil temperature control reduces standby power consumption by up to 82.7%* annually compared to conventional models. Standby power needed for preheating refrigerator oil, which consumed substantial standby power, was reduced to save energy when the air conditioner is stopped.

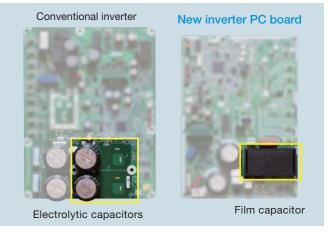
* Operation calculation conditions: VRV H series 14 class

High reliability

New inverter PC board

The control functions of inverter technology have been integrated on printed circuit boards. As well as improving reliability, this has reduced the number of parts and enabled

- New waveform control improves tolerance of variations in power supply voltage. Even if the power supply has irregularities, rises in current are suppressed and operation
- Durability of the inverter printed circuit board improved by changing the electrolytic capacitors for the compressor to film capacitors.



Location: Singapore
Operation time: 08:00–18:00 on weekdays.

IRI H SERIES Heat Pump

Comfort

Low operation sound

High efficiency heat exchanger helps to achieve low operation sound.

Sound level (dB(A))

| | 6/8 class | 10 class | 12 class | 14/16 class |
|---------------------|-----------|----------|----------|-------------|
| URV H SERIES | 56 | 57 | 59 | 60 |

Large airflow, high static pressure and quiet technology

Advanced analytic technologies are utilised to optimise fan design and increase airflow rate and high external static pressure.





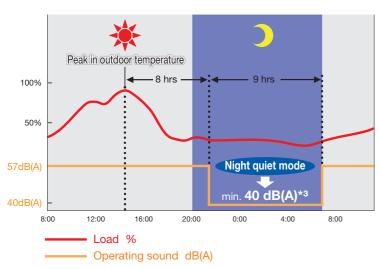


Nighttime quiet operation function

For areas with stringent restrictions placed on outdoor sound levels, the outdoor unit can be set for low operation sound during the nighttime to meet sound restrictions.

The automatic night quiet mode will initiate 8 hours*1 after the peak temperature is reached in the daytime, and normal operation will resume 9 hours*2 after that.

- *1. Initial setting is 8 hours. Can be selected from 6, 8 and 10 hours.
- *2. Initial setting is 9 hours. Can be selected from 8, 9 and 10 hours.
- *3. In case of 10 class outdoor unit.



Note:

- · The night quiet mode lowers operating sound by reducing capacity. This function is available in setting at site.
- The operating sound in quiet operation mode is the actual value measured by our company. Because priority is given to protection mode, such as for oil recovery, the operating sound may become higher temporarily.
- The relationship of outdoor temperature (load) and time shown above is just an example.

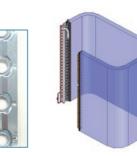
Compact design with high performance

Highly integrated heat exchanger

The unique 4-sided all round heat exchanger ensures sufficient surface area for the heat exchanger. This improves the heat exchanger performance without increasing the footprint.

Waffle Fin

A waffled-shaped fin with fin pitch of 1.4 mm was adopted to realise sufficient heat exchanger area for optimum unit efficiency.

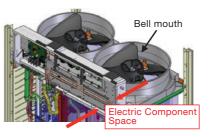


4-sided heat exchanger

High efficiency heat exchanger is realised by reducing airflow resistance with adoption of small cooling tubes with a diameter of Φ 7.

Optimised inner design to ensure smooth airflow

Electric components were downsized and positioned in the dead space of the bell mouth side to decrease airflow resistance.



Easy maintenance Electrical components

The electrical components are strategically located on the top which eases the maintenance process.

Moreover, the heat exchanger on the front side can be used effectively to improve its performance.



Sufficient cooling for electrical components

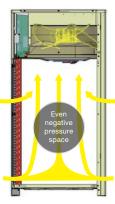
The **VRV** H series is designed with the electrical box strategically positioned between a region of positive and negative pressure. This design allows large airflow from negative pressure to positive pressure due to the high pressure difference.

 High pressure since air enters near the fan blower inlet

High pressure difference

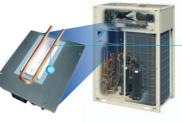
Eliminate suction resistance issue Without affecting the fan volume, the electric

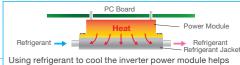
volume, the electric components are designed to be at the top and this ulitises dead space. This eliminates the problem of suction resistance.



High reliability at high ambient temperatures

It is possible to keep operation stable even at high ambient temperatures by cooling the inverter power module. This helps maintain air-conditioning capacity and reduces failure ratio.





Using reingerant to cool into inverter power module neips minimise the size of the electronic components, and this results in reduction of airflow resistance and high efficiency of the heat exchanger.

Control board failure ratio tracks.

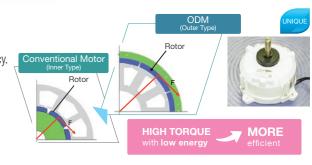
Outer Rotor DC Motor (ODM)

Only Daikin has adapted an ODM with the feature of stable rotation and volumetric efficiency.

Advantages of ODM

Thanks to the large diameter of the rotor,

- (1) Large torque with same electromagnetic force
- ② Stable rotation in all ranges and can be operated with small number of rotations



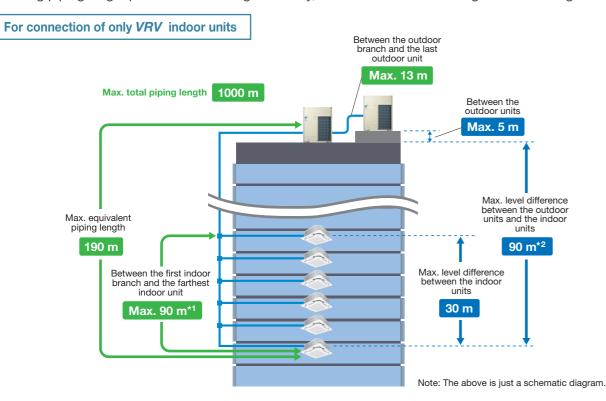
Flexible System Design

IRI H SERIES Heat Pump

■ More options for installation location

Long piping length

The long piping length provides more design flexibility, which can match even large-sized buildings.



| | Actual piping length (Equivalent) | 165 m (190 m) |
|------------------------------------|---|------------------------------|
| | Total piping length | 1000 m |
| Maximum allowable piping length | Between the first indoor branch and the farthest indoor unit | 90 m*1 |
| | Between the outdoor branch and the last outdoor unit (Equivalent) | 10 m (13 m) |
| | Between the outdoor units (Multiple use) | 5 m |
| Maximum allowable level difference | Between the indoor units | 30 m |
| | Between the outdoor units and the indoor units | 90 m* ² |

- *1. No special requirements up to 40 m. The maximum actual piping length can be 90 m, depending on conditions. The VRV H series is easy to extend to 90 m by lessening the conditions from conventional VRV IV models. Be sure to refer to the Engineering Data Book for details of these conditions and requirements.
- *2. When level differences are 50 m or more, the diameter of the main liquid piping size must be increased. If the outdoor unit is above the indoor unit, a dedicated setting on the outdoor unit is required. Refer to the Engineering Data Book and contact your local dealer for more information.

Connection ratio

Connection capacity at maximum is 200%.

Connection ratio 50%–200%

Connection ratio =

 $\frac{\text{Total capacity index of the indoor units}}{\text{Capacity index of the outdoor units}}$

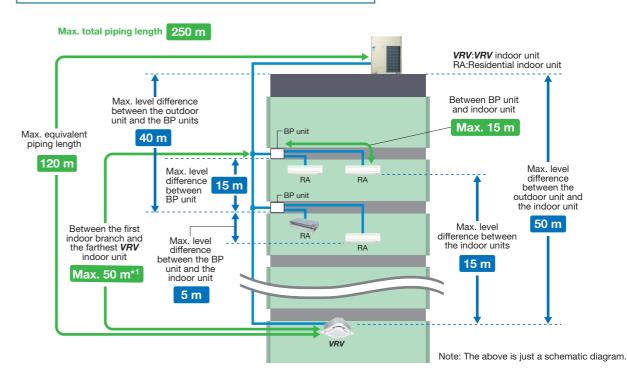
Conditions of VRV indoor unit connection capacity

| Applicable VRV indoor units | FXDQ, FXSQ, FXMQ-PA, FXAQ models | Other VRV indoor unit models* ¹ |
|------------------------------------|----------------------------------|--|
| Single outdoor units | | 200% |
| Double outdoor units | 200% | 160% |
| Triple outdoor units | | 130% |

- *1 For the FXF(S)Q25 models, maximum connection ratio is 130% for the entire range of outdoor units.

 Note: If the operational capacity of indoor units is more than 130%, low airflow operation is enforced in all the indoor units.
- *Refer to page 24 for outdoor unit combination details.

For mixed combination of *VRV* and residential indoor units



When a mixed combination of VRV and residential indoor units is connected or when only residential indoor units are connected

| | Actual piping length (Equiv | valent) | 100 m (120 m) | | | | | | |
|-------------------|------------------------------------|---|---------------|--|--|--|--|--|--|
| | Total piping length | | 250 m | | | | | | |
| | | If indoor unit capacity index < 60. | 2 m-15 m | | | | | | |
| Maximum allowable | Between BP unit and indoor unit | If indoor unit capacity index is 60. | 2 m-12 m | | | | | | |
| piping length | | If indoor unit capacity index is 71. | 2 m-8 m | | | | | | |
| | 201110011111011110111100112 | ranch and the farthest BP unit or ranch and the farthest VRV indoor unit | 50 m*1 | | | | | | |
| | Between outdoor unit and | 5 m | | | | | | | |
| | Between the indoor units | Between the indoor units | | | | | | | |
| | Between BP units | | 15 m | | | | | | |
| Maximum allowable | Between the outdoor unit | If the outdoor unit is above. | 50 m | | | | | | |
| level difference | and the indoor unit | If the outdoor unit is below. | 40 m | | | | | | |
| | Between the outdoor unit | and the BP unit | 40 m | | | | | | |
| | Between the BP unit and t | Between the BP unit and the indoor unit | | | | | | | |

- *1. If the piping length between the first indoor branch and BP unit or VRV indoor unit is over 20 m, it is necessary to increase the gas and liquid piping size between the first indoor branch and BP unit or VRV indoor unit. If the piping diameter of the sized up piping exceeds the diameter of the piping before the first indoor branch kit, then the latter also requires a liquid piping and gas piping size up. Please refer to Engineering Data Book for details.
- *When a mixed combination of *VRV* and residential indoor units is connected or when only residential indoor units are connected, connection ratio must be 80% to 130%. Refer to page 24 for outdoor unit combination details

High external static pressure

VRV H series outdoor unit has been achieved high external static pressure up to 78.4 Pa, ensuring the efficient heat dissipation and stable operation of equipment in either hierarchical or intensive arrangement.

78.4 Pa

• More options in the opening/angle of louvre

• Outstanding heat dissipation effect in both hierarchical and intensive arrangement



Reliable and Stable System

JRV H SERIES

More accurate test operation and stable system

Efficient automatic test operation

Daikin VRV H series incorporates a simplified and efficient test operation function, that not only greatly accelerates the installation process, but also effectively improves the field setting quality.

- Automatically checks the wiring between outdoor units and indoor units to confirm whether there is defective wiring.
- Confirms piping length to optimise operation.
- Automatically checks whether the stop valve in each outdoor unit is functioning normally to ensure the smooth operation of air conditioning system.

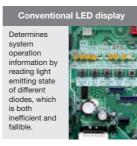


Simplified commissioning and after-sales service

Function of information display by luminous digital tube

VRV H series utilises 7-segment luminous digital tubes to display system operation information, enabling the operational state to be visually displayed whilst facilitating simplified commissioning and after-sales service.





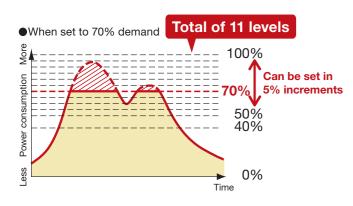
Advanced control main PC board

SMT* packaging technology

- SMT packaging technology adopted by the computer control panel improves the anti-clutter performance.
- Protects your computer boards from the adverse effects of sandy climates and humid weather.

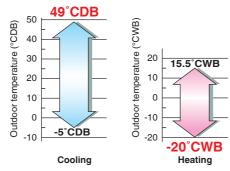
demand function

Limit to power consumption can be set precisely to one of 11 levels. Peak power cut-off can be accomplished according to each user situation. *Set on the circuit board of the outdoor unit.



Wide operation temperature range

The versatile operation range of the VRV H series works to reduce limitations on installation locations. The operation temperature range for heating goes all the way down to -20°C, while cooling can be performed with outdoor temperatures as high as 49°C.



Automatic sequencing operation

During start-up, Daikin VRV H series outdoor unit sequencing operation will be automatically enabled to ensure balance operation of each outdoor unit to improve longevity of equipment and operation stability. Stage 2 Stage 1 Stage 3

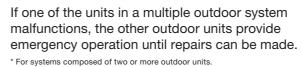


Double backup operation functions

Daikin VRV H series outdoor unit boasts double backup operation functions, which can secure the use of air conditioners in this area to the greatest extent in an emergency by enabling double backup operation functions even if failure occurs in a set of air conditioning equipment.

In the event of a failure, emergency operation can be conveniently enabled to allow the remaining system to operate in a limited fashion.

Unit backup operation function

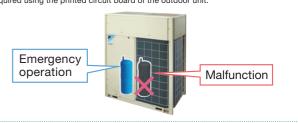




Compressor backup operation function

The outdoor unit is equipped with two compressors. Even if one compressor malfunctions, the other compressor provides emergency operation, reducing the risk of air conditioning shutdown due to compressor failure. (Capacity is saved during backup operation.)

* For single outdoor unit system RXYQ14-20AYM models. On-site settings are



Ease of maintenance

VRV H series provides a maintenance feature* which allows the shutdown of indoor unit without shutting down the whole **VRV** system. This feature comes in handy during maintenance period as the remaining indoor units continue to operate.



^{*} Field setting is required.

This feature does not apply to residential indoor unit connection For more information, please contact Daikin sales office

JRJ H SERIES Heat Pump

■ VRV H Series Outdoor Units Heat Pump

The outdoor unit capacity is up to 60 class (168 kW) in increment of 2 class.

- VRV H series outdoor unit offers a high capacity of up to 60 class, responding to the needs of large-sized building.
- The single outdoor unit has only 2 different shapes and dimensions, not only simplifying the design process, but also bringing the system flexibility to a new level.
- With the outdoor unit capacity increased in increment of 2 class, customers' needs can be precisely met.

Lineup

| class | | | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | 54 | 56 | 58 | 60 |
|---------------|---------------|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| VRV H SERIES | High-COP Type | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | | | | | | | | | | | | |
| VAV II SERIES | Standard Type | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |

High-COP Type

• Double Outdoor Units 12, 14, 16, 18, 20 class



RXYQ12AHYMA RX RXYQ14AHYMA RX RXYQ16AHYMA

RXYQ18AHYMA RXYQ20AHYMA

•Triple Outdoor Units

22, 24, 26, 28, 30, 32, 34, 36 class



RXYQ22AHYMA RXYQ24AHYMA RXYQ26AHYMA RXYQ28AHYMA

RXYQ30AHYMA RXYQ32AHYMA RXYQ34AHYMA RXYQ36AHYMA

Standard Type

•Single Outdoor Units 6, 8, 10, 12 class 14, 16, 18, 20 class



RXYQ6AYM RXYQ8AYM RXYQ10AYM RXYQ12AYM

RXYQ14AYM RXYQ16AYM RXYQ18AYM RXYQ20AYM

Double Outdoor Units

22, 24 class



RXYQ22AYMA RXYQ24AYMA



26, 28, 30 class

RXYQ26AYMA RXYQ28AYMA RXYQ30AYMA



RXYQ32AYMA RXYQ34AYMA RXYQ36AYMA

•Triple Outdoor Units 38, 40 class



RXYQ38AYMA RXYQ40AYMA

42, 44 class



RXYQ42AYMA RXYQ44AYMA

46, 48, 50, 52, 54, 56, 58, 60 class



RXYQ46AYMA RXYQ54AYMA RXYQ48AYMA RXYQ56AYMA RXYQ50AYMA RXYQ58AYMA RXYQ52AYMA RXYQ60AYMA

Outdoor Unit Combinations

For connection of only *VRV* indoor units

High-COP Type

| class | kW | Capacity index | Model name | Combination | Outdoor unit multi connection piping kit*1 | Total capacity index of connectable indoor units*2 | Maximum number of connectable indoor units*2 |
|-------|------|----------------|------------|----------------------------|--|--|--|
| 12 | 32.0 | 300 | RXYQ12AH | RXYQ6A × 2 | | 150 to 390 (480) | 19 (24) |
| 14 | 38.4 | 350 | RXYQ14AH | RXYQ6A + RXYQ8A | | 175 to 455 (560) | 22 (28) |
| 16 | 44.8 | 400 | RXYQ16AH | RXYQ8A × 2 | BHFP22P100 | 200 to 520 (640) | 26 (32) |
| 18 | 50.4 | 450 | RXYQ18AH | RXYQ8A + RXYQ10A | | 225 to 585 (720) | 29 (36) |
| 20 | 55.9 | 500 | RXYQ20AH | RXYQ8A + RXYQ12A | | 250 to 650 (800) | 32 (40) |
| 22 | 60.8 | 550 | RXYQ22AH | RXYQ6A + RXYQ8A × 2 | | 275 to 715 (715) | 35 (35) |
| 24 | 67.2 | 600 | RXYQ24AH | RXYQ8A × 3 | | 300 to 780 (780) | 39 (39) |
| 26 | 72.8 | 650 | RXYQ26AH | RXYQ8A × 2 + RXYQ10A | | 325 to 845 (845) | 42 (42) |
| 28 | 78.3 | 700 | RXYQ28AH | RXYQ8A × 2 + RXYQ12A | BHFP22P151 | 350 to 910 (910) | 45 (45) |
| 30 | 83.9 | 750 | RXYQ30AH | RXYQ8A + RXYQ10A + RXYQ12A | BHFP22P131 | 375 to 975 (975) | 48 (48) |
| 32 | 89.4 | 800 | RXYQ32AH | RXYQ8A + RXYQ12A × 2 | | 400 to 1,040 (1,040) | 52 (52) |
| 34 | 95.0 | 850 | RXYQ34AH | RXYQ10A + RXYQ12A × 2 | | 425 to 1,105 (1,105) | 55 (55) |
| 36 | 101 | 900 | RXYQ36AH | RXYQ12A × 3 | | 450 to 1,170 (1,170) | 58 (58) |

Standard Type

| class | kW | Capacity index | Model name | Combination | Outdoor unit multi connection piping kit*1 | Total capacity index of connectable indoor units*2 | Maximum number of connectable indoor units' |
|-------|------|----------------|------------|-----------------------|---|--|---|
| 6 | 16.0 | 150 | RXYQ6A | RXYQ6A | - | 75 to 195 (300) | 9 (15) |
| 8 | 22.4 | 200 | RXYQ8A | RXYQ8A | - | 100 to 260 (400) | 13 (20) |
| 10 | 28.0 | 250 | RXYQ10A | RXYQ10A | - | 125 to 325 (500) | 16 (25) |
| 12 | 33.5 | 300 | RXYQ12A | RXYQ12A | - | 150 to 390 (600) | 19 (30) |
| 14 | 40.0 | 350 | RXYQ14A | RXYQ14A | - | 175 to 455 (700) | 22 (35) |
| 16 | 45.0 | 400 | RXYQ16A | RXYQ16A | _ | 200 to 520 (800) | 26 (40) |
| 18 | 50.0 | 450 | RXYQ18A | RXYQ18A | _ | 225 to 585 (900) | 29 (45) |
| 20 | 56.0 | 500 | RXYQ20A | RXYQ20A | _ | 250 to 650 (1,000) | 32 (50) |
| 22 | 61.5 | 550 | RXYQ22A | RXYQ10A + RXYQ12A | | 275 to 715 (880) | 35 (44) |
| 24 | 67.0 | 600 | RXYQ24A | RXYQ12A × 2 | | 300 to 780 (960) | 39 (48) |
| 26 | 73.5 | 650 | RXYQ26A | RXYQ12A + RXYQ14A | | 325 to 845 (1,040) | 42 (52) |
| 28 | 78.5 | 700 | RXYQ28A | RXYQ12A + RXYQ16A | BHFP22P100 | 350 to 910 (1,120) | 45 (56) |
| 30 | 83.5 | 750 | RXYQ30A | RXYQ12A + RXYQ18A | BHFP22P100 | 375 to 975 (1,200) | 48 (60) |
| 32 | 90.0 | 800 | RXYQ32A | RXYQ16A × 2 | | 400 to 1,040 (1,280) | 52 (64) |
| 34 | 95.0 | 850 | RXYQ34A | RXYQ16A + RXYQ18A | | 425 to 1,105 (1,360) | 55 (64) |
| 36 | 101 | 900 | RXYQ36A | RXYQ16A + RXYQ20A | | 450 to 1,170 (1,440) | 58 (64) |
| 38 | 107 | 950 | RXYQ38A | RXYQ12A × 2 + RXYQ14A | | 475 to 1,235 (1,235) | 61 (61) |
| 40 | 112 | 1,000 | RXYQ40A | RXYQ12A × 2 + RXYQ16A | | 500 to 1,300 (1,300) | |
| 42 | 118 | 1,050 | RXYQ42A | RXYQ10A + RXYQ16A × 2 | | 525 to 1,365 (1,365) | |
| 44 | 124 | 1,100 | RXYQ44A | RXYQ12A + RXYQ16A × 2 | | 550 to 1,430 (1,430) | |
| 46 | 130 | 1,150 | RXYQ46A | RXYQ14A + RXYQ16A × 2 | | 575 to 1,495 (1,495) | |
| 48 | 135 | 1,200 | RXYQ48A | RXYQ16A × 3 | BHFP22P151 | 600 to 1,560 (1,560) | |
| 50 | 140 | 1,250 | RXYQ50A | RXYQ16A × 2 + RXYQ18A | DHFF22F131 | 625 to 1,625 (1,625) | 64 (64) |
| 52 | 145 | 1,300 | RXYQ52A | RXYQ16A + RXYQ18A × 2 | | 650 to 1,690 (1,690) | |
| 54 | 150 | 1,350 | RXYQ54A | RXYQ18A × 3 | | 675 to 1,755 (1,755) | |
| 56 | 156 | 1,400 | RXYQ56A | RXYQ18A × 2 + RXYQ20A | | 700 to 1,820 (1,820) | |
| 58 | 162 | 1,450 | RXYQ58A | RXYQ18A + RXYQ20A × 2 | | 725 to 1,885 (1,885) | |
| 60 | 168 | 1,500 | RXYQ60A | RXYQ20A × 3 | | 750 to 1,950 (1,950) | |

Note: *1. For multiple connection, the outdoor unit multi connection piping kit (separately sold) is required.

For mixed combination of VRV and residential indoor units or connection of residential indoor units only

| | | | Capacity | Total capacity | index of connectable | e indoor units*2 | Maximum number of | | |
|--------------|------|-------|----------|----------------|----------------------|------------------|--------------------------|--|--|
| Model name*1 | kW | class | index | | Combination (%) | | connectable indoor units | | |
| | | | IIIdex | 80% | 100% | 130% | Connectable indoor drift | | |
| RXYQ6AYM | 16.0 | 6 | 150 | 120 | 150 | 195 | 9 | | |
| RXYQ8AYM | 22.4 | 8 | 200 | 160 | 200 | 260 | 13 | | |
| RXYQ10AYM | 28.0 | 10 | 250 | 200 | 250 | 325 | 16 | | |
| RXYQ12AYM | 33.5 | 12 | 300 | 240 | 300 | 390 | 19 | | |
| RXYQ14AYM | 40.0 | 14 | 350 | 280 | 350 | 455 | 22 | | |
| RXYQ16AYM | 45.0 | 16 | 400 | 320 | 400 | 520 | 26 | | |
| RXYQ18AYM | 50.0 | 18 | 450 | 360 | 450 | 585 | 29 | | |
| RXYQ20AYM | 56.0 | 20 | 500 | 400 | 500 | 650 | 32 | | |

Note: *1. Only single outdoor unit (RXYQ6-20AYM) can be connected.

^{*2.} Values inside brackets are based on connection of indoor units rated at maximum capacity, 200% for single outdoor units, 160% for double outdoor units, and 130% for triple outdoor units. Refer to page 19 for notes on connection capacity of indoor units.

^{*2.} Total capacity index of connectable indoor units must be 80%-130% of the capacity index of the outdoor unit.

URV H SERIES

■ Enhanced range of choices

A mixed combination of VRV indoor units and residential indoor units is enabled all in one

| /RV indoor units | | | | | | | | | | New | lineu | ıp | | | | its su t con | | to |
|---|--------------|------------------------------------|-----|-----------------------|----------------------------|-------|------|-------------|------|-----|-------------|----------------------------|------|-------------|----------------------------|-----------------|-------------|----|
| | | | 20 | | 32 | 40 | 50 | 63 | 71 | 80 | 100 | 125 | 140 | 145 | 160 | 180 | 200 | 25 |
| Туре | Model Name | Capacity Range(kW) Capacity Index | 2.2 | | 3.6 31.25 | | | 7.1 62.5 | | 9 | 11.2 100 | 14 125 | | 16.2 145 | | 20 180 | 22.4 200 | |
| Ceiling Mounted Cassette (Round Flow with Sensing) | FXFSQ-AVM | | | • | • | • | • | • | | • | • | • | • | | 1 | | | |
| Ceiling Mounted Cassette (Round Flow) | FXFQ-PVE | | | | | • | • | • | | • | | • | | | 1 | | | |
| Ceiling Mounted Cassette (Compact Multi Flow) | FXZQ-A2VEB | | • | • | | • | • | | | | | | | | 1 1 1 1 1 1 | | | |
| 4-Way Flow Ceiling Suspended | FXUQ-AVEB | | | | | 1 | 1 | | • | | | | | | 1 | | | |
| Ceiling Mounted Cassette (Double Flow) | FXCQ-AVM | | | | | | | | | | | | 1 | | | | | |
| Ceiling Mounted Cassette (Single Flow) | FXEQ-AV36 | | • | | | • | • | • | | | | | 1 | | 1 | | | |
| Slim Ceiling Mounted Duct (Compact Series) | FXDQ-TV1B(A) | | • | | | • | • | • | | | | | | | 1 1 1 1 1 | | | |
| Slim Ceiling Mounted Duct | FXDQ-PDVE | (700mm width type) | | | | 1 | | | | | 1 | | | | | | | |
| (Standard Series) | FXDQ-NDVE | (900 / 1,100mm width type) | | | 1 1 1 1 1 1 | | | | | | | | | | | | | |
| Ceiling Concealed Duct | FXDYQ-MAV1 | | | | | | | | | • | | • | | • | | | | |
| Middle Static Pressure Ceiling Mounted Duct | FXSQ-PAVE 💩 | | • | | | • | • | • | | • | | • | • | | | | | 1 |
| Ceiling Mounted | FXMQ-PAVE | | • | • | | • | • | • | | • | | • | • | | | | | |
| Duct | FXMQ-PV1A | | | | | | | | | | | 1 1 1 1 1 1 | | | | | | |
| Outdoor-Air Processing Unit | FXMQ-MFV1 | | | | | | | | | | | | | | 1 | | | |
| Ceiling Suspended | FXHQ-MAVE | | | | | | | • | | | | | | | | | | |
| | FXHQ-AVM | | | 1 1 1 1 1 | 1 1 1 1 1 | | | | | | | | • | | | | | |
| Wall Mounted | FXAQ-AVM | | | | | • | | | | | | | 1 | | 1 | | | |
| Floor Standing | FXLQ-MAVE | | • | • | • | • | • | • | | | | | | | 1 1 1 1 1 1 | | | |
| Concealed Floor Standing | FXNQ-MAVE | | • | | | • | • | • | | | | | | | 1 | | | |
| Heat Reclaim Ventilator with DX-Coil and Humidifier | VKM-GA(M)V1 | | Ai | rflow | / rate | e 500 | 0-10 | 00 m | ı³/h | | | | | | | | | |
| Heat Reclaim Ventilator | VAM-GJVE | 00 | Ai | rflow | / rate | e 150 | 0-20 | 00 m | ı³/h | | | | | | | | | |
| Air Handling Unit | AHUR | | | | | | | | | | | | | | 6 | -60 cl | ass | |

Note: For indoor units without 'VRT Smart', the standard 'VRT' control is available (excludes Heat Reclaim Ventilators & Outdoor-Air Processing Unit).

Residential indoor units with connection to BP units

| i i o o i a o i i i i a i i i i c | iooi aiiito iii | | D 1 41111 | | | | | |
|--|-----------------|---------------------------|------------------|-----|-----|-----|-----|-----|
| | | | 20 | 25 | 35 | 50 | 60 | 71 |
| Туре | Model Name | Rated Capacity (kW) | 2.0 | 2.5 | 3.5 | 5.0 | 6.0 | 7.1 |
| | | Capacity Index | 20 | 25 | 35 | 50 | 60 | 71 |
| Ceiling Mounted Cassette (Compact Multi Flow) | FFQ-BV1B | | | | | | | |
| Slim Ceiling Mounted Duct | FDXS-CVMA | (900/1,100 mm width type) | | | | | | |
| Wall | FTXS-KVMA | | | • | | | | |
| Mounted | FTXS-KAVMA | | | | | | | |

Note: BP units are necessary for residential indoor units. Only single outdoor unit (RXYQ6-20AYM) can be connected.

VRV indoor unit type combinations

VRV indoor unit system





- If a system has indoor units subject to both VRT smart and VRT control, the system is operated under VRT control. • If a system has both outdoor-air processing air conditioners and outdoor-air processing type indoor units, VRT smart control and VRT control are disabled.
- Mixed residential and VRV indoor unit system



- BP units are necessary for residential indoor units. Only single outdoor unit (RXYQ6-20AYM) can be connected.
 If a system has both residential indoor units and *VRV* indoor units, the system is operated under VRT control.
- Residential indoor unit only system



- BP units are necessary for residential indoor units. Only single outdoor unit (RXYQ6-20AYM) can be connected.
 If a system has only residential indoor units, the system is operated under VRT control.

Specifications

IRI H SERIES Heat Pump

■ VRV H Series Outdoor Units Heat Pump **RXYQ-A**

High-COP Type

| Model | | | RXYQ12AHYMA | RXYQ14AHYMA | RXYQ16AHYMA | RXYQ18AHYMA | RXYQ20AHYMA | RXYQ22AHYMA |
|----------------|--------------|--------|-----------------|--|-----------------|-----------------|--|---|
| | | | RXYQ6AYM | RXYQ6AYM | RXYQ8AYM | RXYQ8AYM | RXYQ8AYM | RXYQ6AYM |
| Combination | units | | RXYQ6AYM | RXYQ8AYM | RXYQ8AYM | RXYQ10AYM | RXYQ12AYM | RXYQ8AYM |
| | | | _ | _ | - | - | _ | RXYQ8AYM |
| Power supply | | | 3-p | hase 4-wire system, 380-415 V/380 V, 50/60 |) Hz | | 3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz | |
| Cooling capaci | tv | Btu/h | 109,000 | 131,000 | 153,000 | 172,000 | 191,000 | 207,000 |
| Cooling capaci | ty | kW | 32.0 | 38.4 | 44.8 | 50.4 | 55.9 | 60.8 |
| Heating capac | +1/ | Btu/h | 123,000 | 147,000 | 171,000 | 193,000 | 213,000 | 232,000 |
| neating capaci | ty | kW | 36.0 | 43.0 | 50.0 | 56.5 | 62.5 | 68.0 |
| Power | Cooling | kW | 6.76 | 8.55 | 10.3 | 12.0 | 13.9 | 13.7 |
| consumption | Heating | kW | 7.46 | 9.40 | 11.3 | 12.9 | 14.6 | 15.1 |
| Capacity contr | ol | % | 12-100 | 11-100 | 10-100 | | 7-100 | |
| Casing colour | | | | Ivory white (5Y7.5/1) | | | Ivory white (5Y7.5/1) | |
| Compressor | Туре | | | Hermetically sealed scroll type | | | | |
| Compressor | Motor output | kW | (2.4×1)+(2.4×1) | (2.4×1)+(3.4×1) | (3.4×1)+(3.4×1) | (3.4×1)+(4.5×1) | (3.4×1)+(5.5×1) | (2.4×1)+(3.4×1)+(3.4×1) |
| Airflow rate | | ℓ/s | 1,983+1,983 | 1,983+2,967 | 2,967+2,967 | 2,967+2,967 | 2,967+3,183 | 1,983+2,967+2,967 |
| Alfilow rate | | m³/min | 119+119 | 119+178 | 178+178 | 178+178 | 178+191 | 119+178+178 |
| Dimensions (H | ×W×D) | mm | | (1,657×930×765)+(1,657×930×765) | | (1,657×930×765) | +(1,657×930×765) | (1,657×930×765)+(1,657×930×765)+(1,657×930×765) |
| Machine weigh | t | kg | | 185+185 | | 185 | +200 | 185+185+185 |
| Sound level | | dB(A) | | 59 | | 60 | | 61 |
| Sound power | | dB(A) | | 80 | | 81 | | 82 |
| O | Cooling | °CDB | | -5 to 49 | | | -5 to 49 | |
| Operation rang | Heating | °CWB | | -20 to 15.5 | | | | |
| Defriesens | Туре | | | R-410A | | | R-410A | |
| Refrigerant | Charge | kg | 6.9+6.9 | 6.9+7.0 | 7.0+7.0 | 7.0+7.4 | 7.0+7.6 | 6.9+7.0+7.0 |
| Piping | Liquid | mm | | φ12.7 (Brazing) | | | φ15.9 (Brazing) | |
| connections | Gas | mm | | φ28.6 (Brazing) | | | φ28.6 (Brazing) | |

| Model | | | | RXYQ24AHYMA | RXYQ26AHYMA | RXYQ28AHYMA | RXYQ30AHYMA | RXYQ32AHYMA | RXYQ34AHYMA | RXYQ36AHYMA | | | | |
|------------------|-------------|-------|--------|-------------------------|--|-------------------------|---|--------------------------|--------------------------|-------------------------|--|--|--|--|
| | | | | RXYQ8AYM | RXYQ8AYM | RXYQ8AYM | RXYQ8AYM | RXYQ8AYM | RXYQ10AYM | RXYQ12AYM | | | | |
| Combination | units | | | RXYQ8AYM | RXYQ8AYM | RXYQ8AYM | RXYQ10AYM | RXYQ12AYM | RXYQ12AYM | RXYQ12AYM | | | | |
| | | | | RXYQ8AYM | RXYQ10AYM | RXYQ12AYM | RXYQ12AYM | RXYQ12AYM | RXYQ12AYM | RXYQ12AYM | | | | |
| Power supply | | | | 3-ph | nase 4-wire system, 380-415 V/380 V, 50/60 | Hz | | 3-phase 4-wire system, 3 | 80-415 V/380 V, 50/60 Hz | | | | | |
| Cooling conse | nit. | | Btu/h | 229,000 | 248,000 | 267,000 | 286,000 | 305,000 | 324,000 | 345,000 | | | | |
| Cooling capac | Sity | | kW | 67.2 | 72.8 | 78.3 | 83.9 | 89.4 | 95.0 | 101 | | | | |
| Heating cons | nit. | | Btu/h | 256,000 | 278,000 | 299,000 | 321,000 | 341,000 | 365,000 | 386,000 | | | | |
| Heating capac | ily | | kW | 75.0 | 81.5 | 87.5 | 94.0 | 100 | 107 | 113 | | | | |
| Power | Coo | oling | kW | 15.5 | 17.2 | 19.0 | 20.7 | 22.6 | 24.2 | 26.1 | | | | |
| consumption | Heat | ating | kW | 17.0 | 18.6 | 20.3 | 21.8 | 23.5 | 25.1 | 26.7 | | | | |
| Capacity cont | rol | | % | 7-100 | 5-1 | 00 | 5- | 100 | 4-1 | 00 | | | | |
| Casing colour | | | | | Ivory white (5Y7.5/1) | | | Ivory white | e (5Y7.5/1) | | | | | |
| Compressor | Туре | | | | Hermetically sealed scroll type | | | Hermetically se | ealed scroll type | | | | | |
| Compressor | Motor outp | put | kW | (3.4×1)+(3.4×1)+(3.4×1) | (3.4×1)+(3.4×1)+(4.5×1) | (3.4×1)+(3.4×1)+(5.5×1) | (3.4×1)+(4.5×1)+(5.5×1) | (3.4×1)+(5.5×1)+(5.5×1) | (4.5×1)+(5.5×1)+(5.5×1) | (5.5×1)+(5.5×1)+(5.5×1) | | | | |
| Airflow rate | | | ℓ/s | 2,967+2,96 | 67+2,967 | 2,967+2,967+3,183 | 2,967+2,967+3,183 | 2,967+3, | 183+3,183 | 3,183+3,183+3,183 | | | | |
| Alliowiate | | n | n³/min | 178+178 | 8+178 | 178+178+191 | 178+178+191 | 178+1 | 91+191 | 191+191+191 | | | | |
| Dimensions (H | H×W×D) | | mm | (1,657 | 7×930×765)+(1,657×930×765)+(1,657×930× | 765) | | (1,657×930×765)+(1,657×9 | 930×765)+(1,657×930×765) | | | | | |
| Machine weig | ht | | kg | 185+185+185 | 185+18 | 35+200 | 185+2 | 200+200 | 200+20 | 00+200 | | | | |
| Sound level | | | dB(A) | 61 | | 62 | 62 | 6 | 33 | 64 | | | | |
| Sound power | | | dB(A) | 82 | | 83 | 83 | 8 | 34 | 85 | | | | |
| Operation ran | Coo | oling | °CDB | | -5 to 49 | | | -5 t | o 49 | | | | | |
| Operation rang | Heating CWB | | | -20 to 15.5 | | -20 to 15.5 | | | | | | | | |
| Refrigerant Type | | | | | R-410A | | | R-4 | 10A | | | | | |
| Heirigerailt | Cha | arge | kg | 7.0+7.0+7.0 | 7.0+7.0+7.4 | 7.0+7.0+7.6 | 7.0+7.4+7.6 | 7.4+7.6+7.6 | 7.6+7.6+7.6 | | | | | |
| Piping | Liqu | uid | mm | φ15.9 (Brazing) | φ19.1 (E | Brazing) | φ19.1 (Brazing) φ34.9 (Brazing) φ41.3 (Brazing) | | | | | | | |
| connections | Gas | S | mm | | φ34.9 (Brazing) | | | | φ41.3 (Brazing) | | | | | |

Note: Specifications are based on the following conditions;

•Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.

When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

[•]Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.

[•]Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.

Specifications

YRY H SERIES

VRV H Series Outdoor Units Heat Pump RXYQ-A

| Standard | d Type | | | | | | | | | | | | | | | | | | |
|-------------------|----------------------|--------|--------------------|-------------------|-------------------------------|---------------------------------------|-------------------------------|--------------------------------|--------------------------|--------------------------|----------------------------|----------------------------|--|--|-----------------------------|---------------------------------------|--|--|--|
| | | | | | | | | | | | | | | | | | | | |
| Model | | | RXYQ6AYM | RXYQ8AYM | RXYQ10AYM | RXYQ12AYM | RXYQ14AYM | RXYQ16AYM | RXYQ18AYM | RXYQ20AYM | RXYQ22AYMA | RXYQ24AYMA | RXYQ26AYMA | RXYQ28AYMA | RXYQ30AYMA | RXYQ32AYMA | | | |
| 0 | | | _ | _ | _ | _ | _ | _ | _ | _ | RXYQ10AYM | RXYQ12AYM | RXYQ12AYM | RXYQ12AYM | RXYQ12AYM | RXYQ16AYM | | | |
| Combination u | nits | | - | - | _ | _ | _ | _ | _ | _ | RXYQ12AYM | RXYQ12AYM | RXYQ14AYM | RXYQ16AYM | RXYQ18AYM | RXYQ16AYM | | | |
| Power supply | | | | 3- | phase 4-wire system, 3 | 80-415 V/380 V, 50/6 | 0 Hz | | | | 3-p | phase 4-wire system, 3 | 80-415 V/380 V, 50/60 |) Hz | | | | | |
| Cooling capacit | ·v | Btu/h | 54,600 | 76,400 | 95,500 | 114,000 | 136,000 | 154,000 | 171,000 | 191,000 | 210,000 | 229,000 | 251,000 | 268,000 | 285,000 | 307,000 | | | |
| - Cooming dapaon | . 9 | kW | 16.0 | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 50.0 | 56.0 | 61.5 | 67.0 | 73.5 | 78.5 | 83.5 | 90.0 | | | |
| Heating capacit | ·v | Btu/h | 61,400 | 85,300 | 107,000 | 128,000 | 154,000 | 171,000 | 191,000 | 215,000 | 235,000 | 256,000 | 281,000 | 299,000 | 319,000 | 341,000 | | | |
| | | kW | 18.0 | 25.0 | 31.5 | 37.5 | 45.0 | 50.0 | 56.0 | 63.0 | 69.0 | 75.0 | 82.5 | 87.5 | 93.5 | 100 | | | |
| Power | Cooling | | 3.38 | 5.17 | 6.84 | 8.70 | 10.7 | 12.9 | 15.3 | 17.7 | 15.5 | 17.4 | 19.4 | 21.6 | 24.0 | 25.8 | | | |
| consumption | Heating | | 3.73 | 5.67 | 7.23 | 8.91 | 11.0 | 12.6 | 14.9 | 17.1 | 16.1 | 17.8 | 19.9 | 21.5 | 23.8 | 25.2 | | | |
| Capacity contro | ol | % | 25-100 | 20-100 | 13-100 | 12-100 | 11-100 | 10-100 | 10-100 | 7-100 | 6- | 100 | | 5- | -100 | | | | |
| Casing colour | | | | | | e (5Y7.5/1) | | | | | | Ivory white | | | | | | | |
| - | Гуре | | | | Hermetically se | ealed scroll type | | | | | | Hermetically se | ealed scroll type | T | | | | | |
| Compressor | Motor output | kW | 2.4×1 | 3.4×1 | 4.5×1 | 5.5×1 | (2.9×1)+(3.3×1) | (3.6×1)+(3.7×1) | (4.1×1)+(4.0×1) | (3.7×1)+(6.3×1) | (4.5×1)+(5.5×1) | (5.5×1)+(5.5×1) | (5.5×1)+(2.9×1)+ (3.3×1) | (5.5×1)+(3.6×1)+ (3.7×1) | (5.5×1)+(4.1×1)+ (4.0×1) | (3.6×1)+(3.7×1)+ (3.6×1)+(3.7×1) | | | |
| Airflow rate | | ℓ/s | 1,983 | | 967 | 3,183 | | 283 | 4,200 | 4,950 | 2,967+3,183 | 3,183+3,183 | | +4,283 | 3,183+4,200 | 4,283+4,283 | | | |
| All now rate | | m³/min | 119 | 1 | 78 | 191 | 2 | 57 | 252 | 297 | 178+191 | 191+191 | 191- | +257 | 191+252 | 257+257 | | | |
| Dimensions (H× | :W×D) | mm | | 1,657× | 930×765 | | 1,657×1 | ,240×765 | 1,657×1 | ,240×765 | (1,657×930×765) |)+(1,657×930×765) | (1,657× | 930×765)+(1,657×1,2 | 40×765) | (1,657×1,240×765) (1,657×1,240×765 | | | |
| Machine weight | i | kg | 18 | 35 | 20 | 00 | 2 | 85 | 305 | 325 | 200 | 0+200 | 200- | +285 | 200+305 | 285+285 | | | |
| Sound level | | dB(A) | 5 | 6 | 57 | 59 | 6 | 60 | 61 | 65 | 61 | 62 | | (| 63 | | | | |
| Sound power | | dB(A) | 7 | 7 | 78 | 80 | 3 | 31 | 82 | 86 | 82 | 83 | | 8 | 84 | | | | |
| Operation range | Cooling | °CDB | | | -5 t | o 49 | | | | | | -5 t | o 49 | | | | | | |
| Operation range | Heating | °CWB | | | | o 15.5 | | | | | | | o 15.5 | | | | | | |
| Refrigerant | Туре | | | | | 10A | | | | | | R-4 | 10A | | | | | | |
| | Charge | kg | 6.9 | 7.0 | 7.4 | 7.6 | 9.1 | 9.3 | 1. | 1.8 | 7.4+7.6 | 7.6+7.6 | 7.6+9.1 | 7.6+9.3 | 7.6+11.8 | 9.3+9.3 | | | |
| Piping | Liquid | mm | | φ9.5 (Brazing) | | | φ12.7 (Brazing) | | | | (Brazing) | | | | Brazing) | | | | |
| connections | Gas | mm | φ19.1 (E | Brazing) | φ22.2 (Brazing) | | φ28.6 (Brazing) | | | φ28.6 (Brazing) | | | | φ 34.9 (Brazing) | | | | | |
| | | | | | | | | T | | | | | | | | | | | |
| Model | | | RXYQ34AYMA | RXYQ36AYMA | RXYQ38AYMA | RXYQ40AYMA | RXYQ42AYMA | RXYQ44AYMA | RXYQ46AYMA | RXYQ48AYMA | RXYQ50AYMA | RXYQ52AYMA | RXYQ54AYMA | RXYQ56AYMA | RXYQ58AYMA | RXYQ60AYMA | | | |
| | | | RXYQ16AYM | RXYQ16AYM | RXYQ12AYM | RXYQ12AYM | RXYQ10AYM | RXYQ12AYM | RXYQ14AYM | RXYQ16AYM | RXYQ16AYM | RXYQ16AYM | RXYQ18AYM | RXYQ18AYM | RXYQ18AYM | RXYQ20AYM | | | |
| Combination u | nits | _ | RXYQ18AYM | RXYQ20AYM | RXYQ12AYM | RXYQ12AYM | RXYQ16AYM | RXYQ16AYM | RXYQ16AYM | RXYQ16AYM | RXYQ16AYM | RXYQ18AYM | RXYQ18AYM | RXYQ18AYM | RXYQ20AYM | RXYQ20AYM | | | |
| | | | - | | RXYQ14AYM | RXYQ16AYM | RXYQ16AYM | RXYQ16AYM | RXYQ16AYM | RXYQ16AYM | RXYQ18AYM | RXYQ18AYM | RXYQ18AYM | RXYQ20AYM | RXYQ20AYM | RXYQ20AYM | | | |
| Power supply | | DL " | 004.000 | | phase 4-wire system, 3 | · · · · · · · · · · · · · · · · · · · | | 400,000 | 111000 | 404 000 | | phase 4-wire system, 3 | | | 550.000 | F70 000 | | | |
| Cooling capacit | у | Btu/h | 324,000 | 345,000 | 365,000 | 382,000 | 403,000 | 423,000 | 444,000 | 461,000 | 478,000 | 495,000 | 512,000 | 532,000 | 553,000 | 573,000 | | | |
| | | kW | 95.0 | 101 | 107 | 112 | 118 | 124 | 130 | 135 | 140 | 145 | 150 | 156 | 162 | 168 | | | |
| Heating capacit | У | Btu/h | 362,000 | 386,000 | 409,000 | 427,000 | 450,000 | 471,000 | 495,000 | 512,000 | 532,000 | 553,000 | 573,000 | 597,000 | 621,000 | 645,000 | | | |
| | | kW | 106 | 113 | 120 | 125 | 132 | 138 | 145 | 150 | 156 | 162 | 168 | 175 | 182 | 189 | | | |
| Power consumption | Cooling | | 28.2 | 30.6 | 28.1 | 30.3 | 32.6 | 34.5 | 36.5 | 38.7 | 41.1 | 43.5 | 45.9 | 48.3 | 50.7 | 53.1 | | | |
| <u> </u> | Heating | | 27.5 | 29.7 | 28.8 | 30.4 | 32.4 | 34.1 | 36.2 | 37.8 | 40.1 | 42.4 | 44.7 | 46.9 | 49.1 | 51.3 100 | | | |
| Capacity contro | ol . | % | 5-100 | | 4-100 | e (5Y7.5/1) | 3- | 100 | | | 3- | ·100 | o (EV7 E/1) | 7.5/1) | | | | | |
| Casing colour | Tuno. | | | | | , | | | | | | | e (5Y7.5/1) | | | | | | |
| Compressor | Гуре Motor output | kW | (3.6×1)+(3.7×1)+ | (3.6×1)+(3.7×1)+ | (5.5×1)+(5.5×1)+ | (5.5×1)+(5.5×1)+ | | (5.5×1)+(3.6×1)+(3.7×1)+ | (2.9×1)+(3.3×1)+(3.6×1)+ | (3.6×1)+(3.7×1)+(3.6×1)- | + (3.6×1)+(3.7×1)+(3.6×1)- | + (3.6×1)+(3.7×1)+(4.1×1)+ | ealed scroll type (4.1×1)+(4.0×1)+(4.1×1)+ (4.0×1)+(4.1×1)+(4.0×1) | (4.1×1)+(4.0×1)+(4.1×1)+ | (4.1×1)+(4.0×1)+(3.7×1)+ | (3.7×1)+(6.3×1)+(3.7×1) | | | |
| | | 0.1- | (4.1×1)+(4.0×1) | (3.7×1)+(6.3×1) | (2.9×1)+(3.3×1) | (3.6×1)+(3.7×1) | (3.6×1)+(3.7×1) | (3.6×1)+(3.7×1) | | | | | | +(4.1×1)+(4.0×1) (4.0×1)+(3.7×1)+(6.3×1) (6.3×1)+(6.3× | | | | | |
| Airflow rate | | l/s | 4,283+4,200 | 4,283+4,950 | | 183+4,283 | | 3,183+4,283+4,283 | | 283+4,283 | | | | | | | | | |
| | | m³/min | 257+252 | 257+297 | | 91+257 | 178+257+257 | 191+257+257 | 257+2 | 57+257 | 257+257+252 | 257+252+252 | 252+252+252 | 297+297+297 | | | | | |
| Dimensions (H× | (W×D) | mm | (1,657×1,240×765)+ | (1,657×1,240×765) | (1,657×930×765)+ (1,657×1, | | (1,657×930×765)+((1,657×1 | 1,657×1,240×765)+ ,240×765) | | | (1,657) | ×1,240×765)+(1,657×1 | ,240×765)+(1,657×1,2 | | | | | | |

9.3+11.8

285+325

87

200+200+285

-5 to 49

-20 to 15.5

R-410A

7.6+7.6+9.1 7.6+7.6+9.3

φ19.1 (Brazing)

200+285+285

7.6+9.3+9.3

85

7.4+9.3+9.3

285+305

φ34.9 (Brazing)

kg

dB(A)

mm

Cooling °CDB

Heating °CWB

Charge kg

Liquid mm

9.3+9.3+11.8

65

86

9.3+9.3+9.3

285+285+285

9.1+9.3+9.3

When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

9.3+11.8+11.8

-5 to 49

-20 to 15.5

R-410A

φ19.1 (Brazing)

305+305+325

11.8+11.8+11.8

305+325+325

325+325+325

91

Machine weight

Sound level

Refrigerant

Piping

Sound power

Operation range

Note: Specifications are based on the following conditions;

•Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.

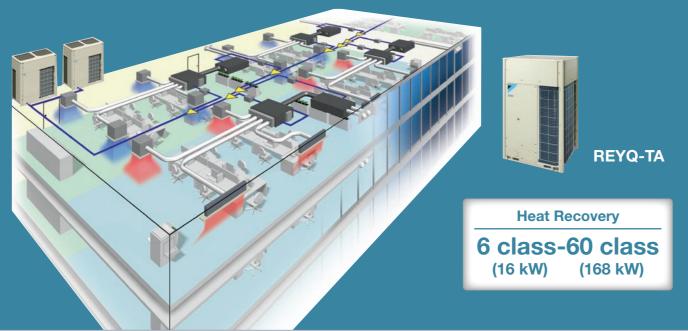
[•]Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.

[•]Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.

VRV R SERIES

Maximum Comfort via Simultaneous Cooling and Heating



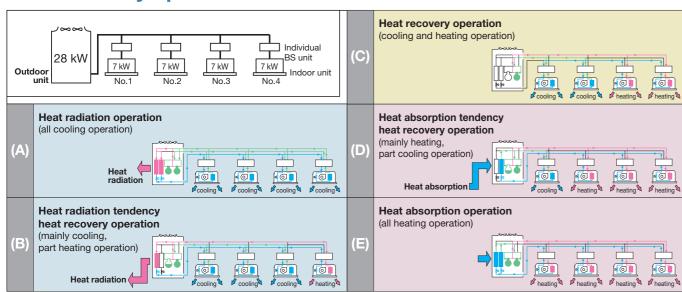
What is Heat Recovery Air Conditioner?

Modern office buildings are highly airtight and subject to an increasing heat load due to the use of computers, lighting equipment and other office equipment. In these buildings some rooms may require artificial cooling even in winter, depending on the amount of sunshine received and the number of people in the room. In order to meet such requirements the Heat Recovery Series enables the simultaneous operation of cooling and heating by controlling the BS unit that switches cooling and heating. This series also substantially improves energy efficiency by recycling waste heat.

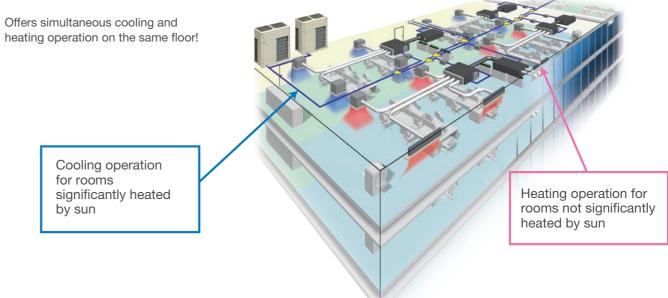
Operation mode

Heat recovery operation mode

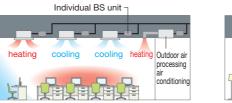
IN R SERIES



Note: Operation modes (A) and (E) are applicable when the outdoor temperature is 35°C and 7°C respectively; The other modes are applicable under typical outdoor conditions

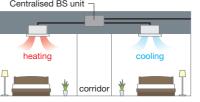


Increasing demand for simultaneous cooling and heating needs



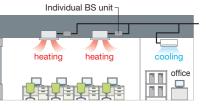
Winter season (Office Building)

- Difference between the load of cold air and heat from room is large
- Can be use with the outdoor air processing air conditioning



Winter season (Hotel)

■ Able to cater to individual heating and cooling requirement



Individual office

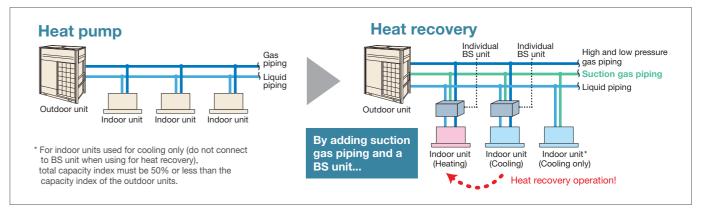
Provides heating and annual cooling depending on space area

BS unit (Individual type/Centralised type)

By adding suction gas piping and a BS unit (sold separately), simultaneous cooling and heating operation can be provided by a single system.







URV R SERIES

Advanced technologies for greater energy savings

By utilising advanced software technologies, VRV R Series is able to attain greater heights in energy savings and comfort.

VRT Smart Control (Fully Automatic Energy-saving Refrigerant Control)

Software technology

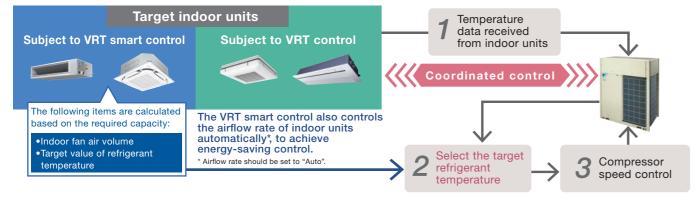
Daikin's VRT Smart technology takes comfort and energy performance to the next level. Building on our variable refrigerant temperature technology which enables the evaporating temperature to adjust to meet the varying load, VRT Smart is now also able to automatically adjust the indoor unit airflow rate (Airside Control) to ensure optimal comfort and energy performance is delivered at all times.



Function

Overview of the control (system control flow)

Different automatic energy-saving refrigerant control applies depending on the indoor units connected.



 Changes in the room temperature during low-load operation* The smooth control Fully automatic energy-saving (which keeps the compressor Conventional air-conditioning method refrigerant control Changes in the room temperature: Large running) saves energy and Changes in the room temperature: Small The power consumption attributed to the ensures comfort during low-load operation. Turned off by

- •For the classification of indoor units (VRT smart control and VRT control), refer to pages 47–48.
- •If a system has indoor units subject to both VRT smart and VRT control, the system is operated under VRT control.
 •If a system has both outdoor-air processing air conditioners and outdoor-air processing type indoor units, VRT smart control and VRT control are disabled only available during either all cooling operation or all heating operation

Optimum utilisation of VRT Smart Control and VRT Control

VRT Smart and VRT control is most effective when all the indoor units operate under low load conditions in a similar manner. Low load conditions is the time when room temperature approaches set temperature. For this reason, please note the following to maximise efficacy.

When selecting indoor units

Indoor units are installed in a system so that they operate largely under the same conditions.

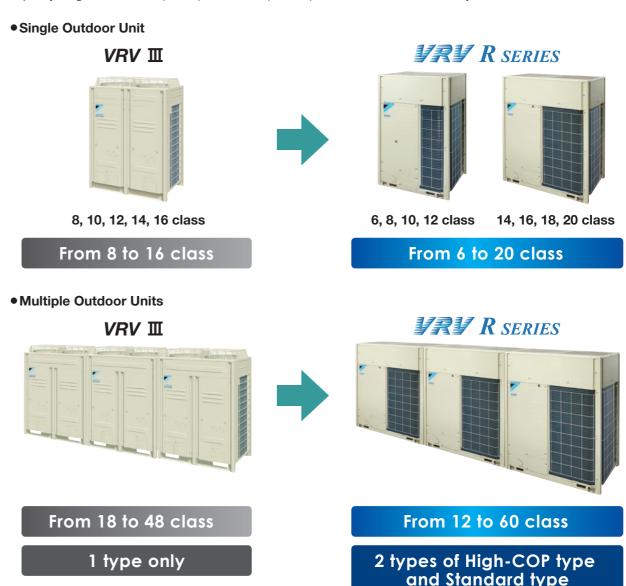
Energy efficiency decreases for the installation patterns indicated below. Example:

- 1) A load imbalance occurs because an indoor unit on the same system is installed near the perimeter of the room or in the vicinity of a room entrance.
- 2) Different operating hours for indoor units.
- 3) Energy efficiency decreases when the set temperature of a specified indoor unit is set to an extreme during cooling operation. E.g. 18°C

Enhanced lineup

Wider capacity range from 6 to 60 class

With its enhanced lineup of 2 types-High-COP and Standard types, VRV R series Heat Recovery outdoor units offer a wider capacity range from 6 class (16 kW) to 60 class (168 kW) to meet an ever wider variety of needs.



Lineup

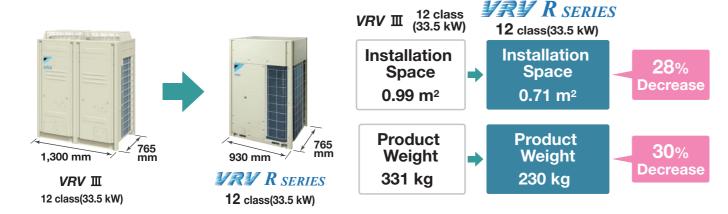
| class | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | 54 | 56 | 58 | 60 |
|---------------|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| High-COP Type | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Standard Type | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

IRI R SERIES Heat Recovery

Ease of installation

Compact & lightweight design

Highly-integrated VRV R series offers compact outdoor units to achieve maximum utilisation of the installation space.



Comfort

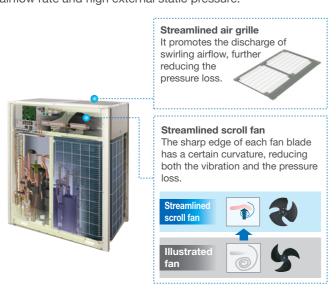
Lower operation sound

Improve heat exchanger efficency, helps to reduced operation sound.

| | | | | Sour | nd level(dB(A)) | | |
|---------------------|-----------|----------|----------|----------|-----------------|-----|-------------|
| | 6/8 class | 10 class | 12 class | 14 class | 16 class | | 2 dE |
| VRV Ⅲ | 58 | 58 | 60 | 62 | 63 | rec | duc |
| URU R SERIES | 56 | 57 | 59 | 60 | 61 | | onve ode |

Large airflow, high static pressure and quiet technology

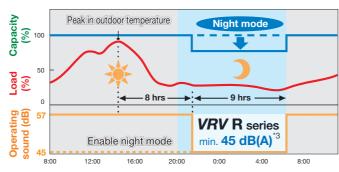
Without increasing operation sound, advanced analytical technologies are utilised to optimise fan design and increase airflow rate and high external static pressure.



Nighttime quiet operation function

Outdoor PCB automatically memorises the time when the peak outdoor temperature appears. It will enable quiet operation mode after 8 h^{*1}, and return to normal mode after it keeps for 9 h^{*2}.

- *1. 8 h is the initial setting with 6 h or 10 h also available.
- *2. 9 h is the initial setting with 8 h or 10 h also available.
- *3. In case of 10 class outdoor unit during cooling operation.



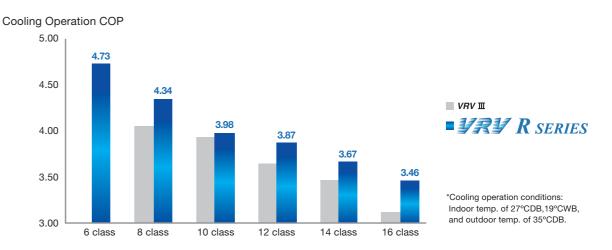
Note: \cdot This function is available in setting at site.

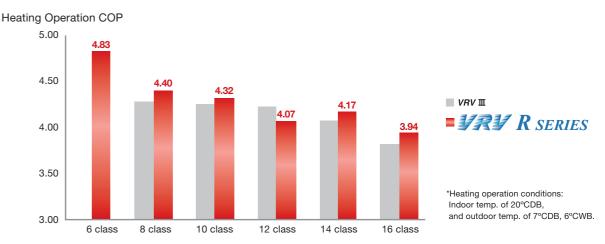
- The operating sound in quiet operation mode is the actual value measured by our company.
- The relationship of outdoor temperature (load) and time shown above is just an example.

Energy saving

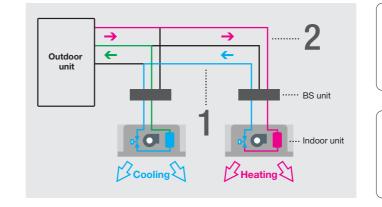
Higher Coefficient of Performance (COP)

It has become essential for air conditioning manufacturers to develop systems that provide high energy savings. We at Daikin have made great efforts in this field, and the **VRV** R series delivers highly efficient performance, contributing to high energy savings.





The heat recovery system utilises waste heat, achieving outstanding energy conservation performance.



The (cold) waste heat from heating is used for the cooling operation.

The waste heat from cooling is used to generate heat that is needed for heating operation while conserving electricity.

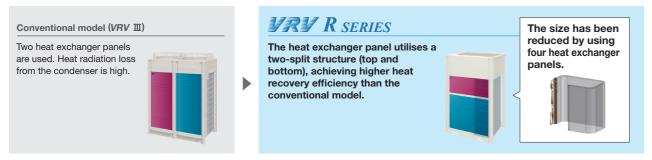
URU R SERIES

The flexibility of simultaneous cooling and heating operation has been further enhanced by various advanced technologies.

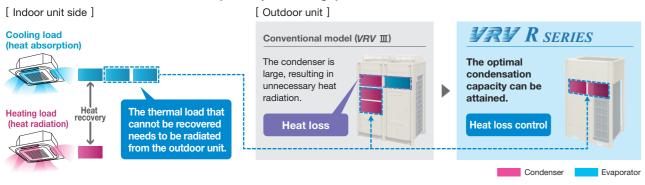
Development of a highly efficient heat exchanger utilising of a two-split structure

In a conventional system, two heat exchanger panels are utilised: one is used as an evaporator; while the other is used as a condenser. In the newly developed system, a two-split structure is utilised, with one panel split into two parts (top and bottom) at an optimal ratio depending on the capacity required for simultaneous cooling and heating operation. Heat radiation loss has been minimised, and the heat recovery efficiency and partial load characteristics have been improved.

■Comparison of 12 class system (During simultaneous cooling and heating operation)



Indoor and outdoor heat balance (conceptual image)



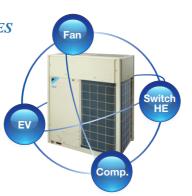
Heat Recovery Link control to reduce the heat loss

Heat loss is minimised by interlocking the heat exchanger switching, motor-operated valves, compressors, and fans, which are conventionally controlled independently during simultaneous cooling and heating operation, leading to a significant increase in efficiency.

VRV Ⅲ Refrigerant circuit is balanced based on the independent control of each elements ⇒ occurred heat loss

YRY R SERIES Interlocking operation with each elements in order to reduce

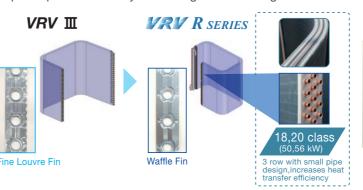
⇒Improvement of Heat recovery

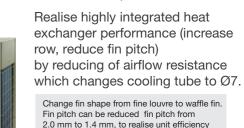


Advanced technologies achieve excellent performance

Highly integrated heat exchanger

Improve performance by increasing heat exchanger area while maintaining the same installation space.





whichincreased heat exchanger area

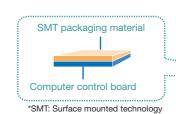
| | Heat exchanger area | Contribution of COP (cooling) |
|------------------|---------------------|-------------------------------|
| 16 class (45 kW) | 24%UP | 108.5% |

Various advanced control main PC board

SMT* packaging technology

SMT packaging technology adopted by the whole computer control panel improves the anti-clutter performance.

Protects your computer boards from the adverse effect of sandy and humid weather.

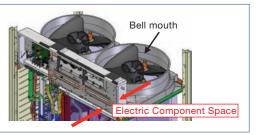


Computer control board surface adopting SMT packaging technology

Refrigerant cooling technology, ensures stability of PCB temperature

Improved inner design to increase smooth airflow

Downsize electric component, re-locate to dead space of bell mouth side to decrease airflow resistance.





Improve reliability at high ambient temperature

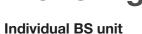
It is possible to cool the inverter power module stability even at high ambient temperature.

This helps to keep air-conditioning capacity and also reduces failure ratio.

VRV R SERIES

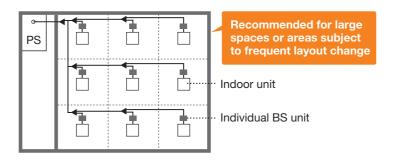
Enhanced Lineup of BS Units

Individual and centralised BS unit allow greater design flexibility.





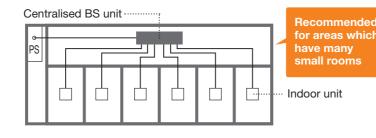
- Compact and flexible installation
- Flexible design
- Low noise



Centralised BS unit



BS4Q14AV1 BS6Q14AV1 BS8Q14AV1 BS10Q14AV1 BS12Q14AV1 BS16Q14AV1



■ Enhanced Line up

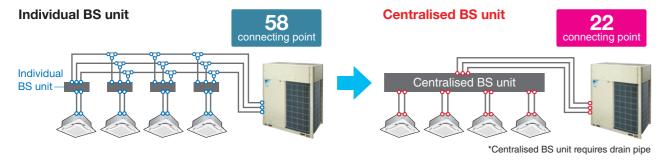
| No. of branches | 4 | 6 | 8 | 10 | 12 | 16 |
|----------------------------------|---|---|---|----|----|----|
| Conventional Centralised BS Unit | | | | | | |
| Centralised BS Unit | | | | | | |

Compact and lightweight design Compared to conventional BS unit (6 branch)

reduced by 65%

BS unit weight reduced by 73%

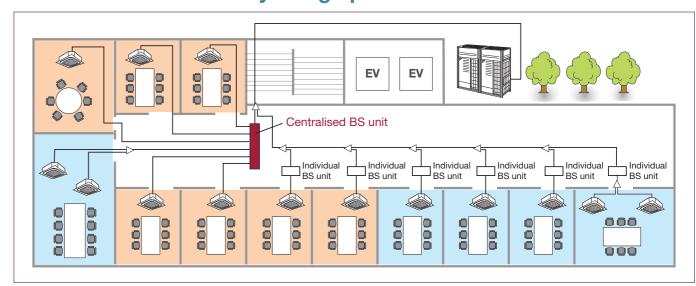
Installation and maintenance work have been made easier through the integration of multiple BS units.



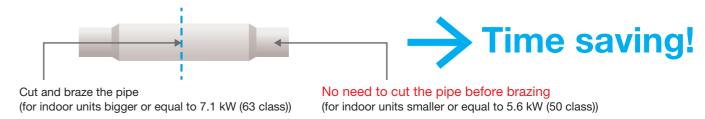
Greater design flexibility achieved by increasing the connection capacity range



Combined use of a centralised BS unit and individual BS units meets the needs of many design plans.



Faster installation of centralised BS unit thanks to open connection



Lower transient sound

New BS units achieve lower transient sound level than conventional BS units.

| Maximum transiant acco | | | | Centralise | ed BS unit | | |
|------------------------|----------------------|----------|----------|------------|------------|-----------|----|
| Maximum transient sou | na | 4 branch | 6 branch | 8 branch | 10 branch | 12 branch | |
| New BS units | Sound level (dB(A))* | 45 | 47 | 47 | 48 | 48 | 49 |
| Conventional BS units | Sound level (dB(A))* | 51.5 | 53.5 | | _ | _ | |

| *Anechoic chamber conversion value, measured at a point 1 m downward from the unit centre | |
|---|--|
| | |

Individual BS unit 100 type | 160 type | 250 type 46.5 45.5 47.5

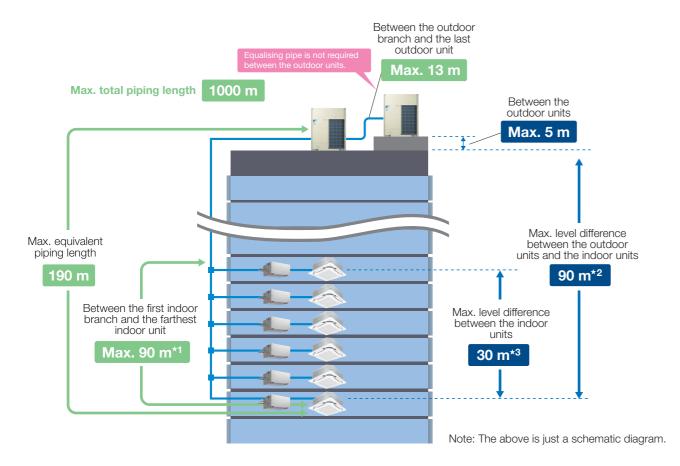
More Flexible System Design

VRV R SERIES Heat Recovery

■ More options for equipment placement

Long piping length

The long piping length provides more design flexibility, which can match even large-sized buildings.



| | Actual piping length (Equivalent) | 165 m (190 m |
|------------------------------------|---|-----------------------------|
| | Total piping length | 1000 m |
| Maximum allowable piping length | Between the first indoor branch and the farthest indoor unit | 90 m*1 |
| | Between the outdoor branch and the last outdoor unit (Equivalent) | 10 m (13 m) |
| | Between the outdoor units (Multiple use) | 5 m |
| Maximum allowable level difference | Between the indoor units | 30 m*³ |
| | Between the outdoor units and the indoor units | 90 m* ² |

- ★1. No special requirements up to 40 m. The maximum actual piping length can be 90 m, depending on conditions. The VRV R series is easy to extend to 90 m by lessening the conditions from conventional VRV IV models. Be sure to refer to the Engineering Data Book for details of these conditions and requirements.
- *2. When level differences are 50 m or more, the diameter of the main liquid piping size must be increased. If the outdoor unit is above the indoor unit, a dedicated setting on the outdoor unit is required. Refer to the Engineering Data Book and contact your local dealer for more information.
- ★3. When level differences are 15 m or more, maximum actual piping length must be 120 m.

Connection ratio

Connection capacity at maximum is 200%.

Connection ratio 50%-200%

Connection ratio = Total capacity index of the indoor units

Capacity index of the outdoor units

Conditions of VRV indoor unit connection capacity

| Applicable VRV indoor units | FXDQ, FXSQ, FXMQ-PA, FXAQ models | Other VRV indoor unit models*1 |
|------------------------------------|----------------------------------|--|
| Single outdoor units | | 200% |
| Double outdoor units | 200% | 160% |
| Triple outdoor units | | 130% |

^{*1} For the FXF(S)Q25 models, maximum connection ratio is 130% for the entire range of outdoor units.

Note: If the operational capacity of indoor units is more than 130%, low airflow operation is enforced in all the indoor units. *Refer to page 46 for outdoor unit combination details.

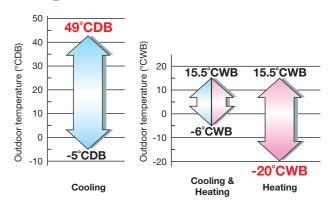
High external static pressure

VRV R series outdoor unit has been achieved high external static pressure up to 78.4 Pa, ensuring the efficient heat dissipation and stable operation of equipment in either hierarchical or intensive arrangement.



Wide operation temperature range

The versatile operation range of the **VRV** R series works to reduce limitations on installation locations. The operation temperature range for heating goes all the way down to -20°C, while cooling can be performed with outdoor temperatures as high as 49°C. Both these achievements are due to the employment of a high-pressure dome-type compressor.



IRV R SERIESHeat Recovery

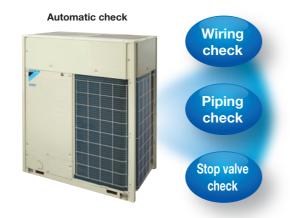
Multiple advanced features ensuring more accurate test operation and stable system

Efficient automatic test operation

Daikin *VRV* R series incorporates a simplified and efficient test operation function, not only greatly accelerating the installation process, but effectively improving the field setting quality as well.

Reliable and Stable System

- Automatically checks the wirings between outdoor units and indoor units to confirm whether there is a defective wiring.
- Optimises operations to suit field piping lengths.
- Automatically check whether the stop valve in each outdoor unit is in normal status to ensure the smooth operation of air conditioning system.



Simplified commissioning and after-sales service

Function of information display by luminous digital tube

VRV R series utilises 7-segment luminous digital tubes to display system operation information, enabling the operational state to be visually displayed whilst facilitating simplified commissioning and after-sales service.





Compliant with the RoHS Directive*

We have been making efforts to facilitate the transition to using RoHS Directive*-compliant materials for system parts.

* RoHS Directive

The RoHS (Restriction of Hazardous Substances (in electrical and electronic equipment)) Directive is an environmental directive enacted to regulate the use of designated chemical substances (lead, cadmium, hexavalent chromium, mercury, polybrominated biphenyls and polybrominated diphenylether) in electrical equipment. All household products subject to this Directive and sold in Europe from July 1, 2006 are legally bound to comply with the RoHS Directive.

Outdoor unit sequencing technology

Automatic sequencing operation

During start-up, Daikin **VRV** R series outdoor unit sequencing operation will be automatically enabled to ensure balanced operation of each outdoor unit to improve longevity of equipment and stable operation.

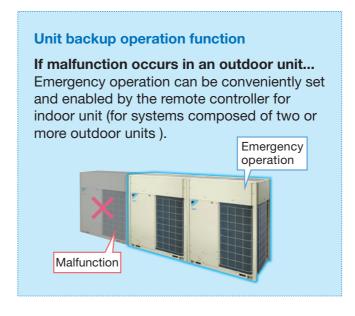


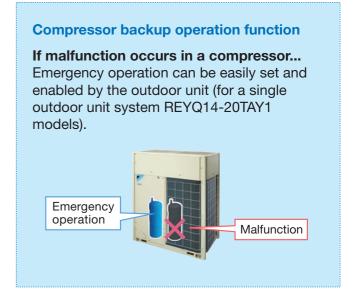
Double backup operation functions responding resiliently to various unexpected situations

Double backup operation functions

Daikin **VRV** R series boasts double backup operation functions, which can secure the use of air conditioners in this area to the greatest extent by emergently enabling double backup operation functions even if failure occurs in a set of air conditioning equipment.

In the event of a failure, emergency operation can be conveniently enabled to allow the remaining system to operate in a limited fashion.





Outdoor Unit Lineup

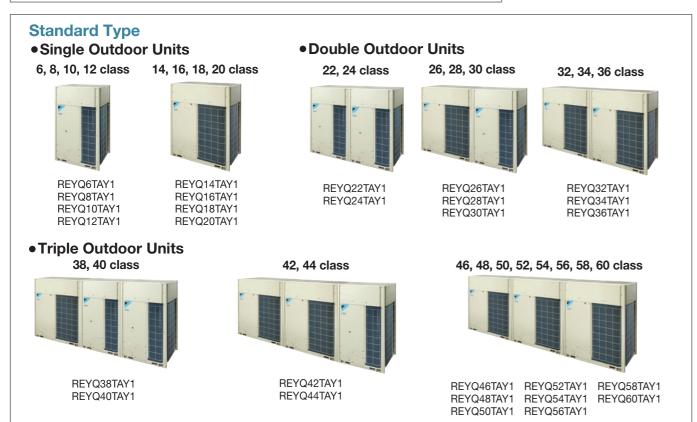
リ君リ R SERIES

■ VRV R Series Outdoor Units Heat Recovery

Wider capacity range from 6 to 60 class

- With its enhanced lineup of 2 types-High-COP and Standard types, VRV R series Heat Recovery outdoor units offer a wider capacity range from 6 class (16 kW) to 60 class (168 kW) to meet an ever wider variety of needs.
- The single outdoor unit has only 2 different shapes and dimensions, not only simplifying the design process, but also bringing the system design flexibility to a new level.





Lineup

| cla | ISS | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | 54 | 56 | 58 | 60 |
|--------------|---------------|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| VRV R SERIES | High-COP Type | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | | | | | | | | | | | | |
| | Standard Type | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |

Outdoor Unit Combinations

High-COP Type

| class | kW | Capacity index | Model name | Combination | Outdoor unit multi connection piping kit*1 | Total capacity index of connectable indoor units*2 | Maximum number of connectable indoor units*2 |
|-------|------|----------------|------------|-------------------------------|--|--|--|
| 12 | 32.0 | 300 | REYQ12TAH | REYQ6TA x 2 | | 150 to 390 (480) | 19 (24) |
| 14 | 38.4 | 350 | REYQ14TAH | REYQ6TA + REYQ8TA |] | 175 to 455 (560) | 22 (28) |
| 16 | 44.8 | 400 | REYQ16TAH | REYQ8TA x 2 | BHFP26P90 | 200 to 520 (640) | 26 (32) |
| 18 | 50.4 | 450 | REYQ18TAH | REYQ8TA + REYQ10TA | | 225 to 585 (720) | 29 (36) |
| 20 | 55.9 | 500 | REYQ20TAH | REYQ8TA + REYQ12TA |] | 250 to 650 (800) | 32 (40) |
| 22 | 60.8 | 550 | REYQ22TAH | REYQ6TA + REYQ8TA x 2 | | 275 to 715 (715) | 35 (35) |
| 24 | 67.2 | 600 | REYQ24TAH | REYQ8TA x 3 |] | 300 to 780 (780) | 39 (39) |
| 26 | 72.8 | 650 | REYQ26TAH | REYQ8TA x 2 + REYQ10TA | | 325 to 845 (845) | 42 (42) |
| 28 | 78.3 | 700 | REYQ28TAH | REYQ8TA x 2 + REYQ12TA | BHFP26P136 | 350 to 910 (910) | 45 (45) |
| 30 | 83.9 | 750 | REYQ30TAH | REYQ8TA + REYQ10TA + REYQ12TA | BHFP20P130 | 375 to 975 (975) | 48 (48) |
| 32 | 89.4 | 800 | REYQ32TAH | REYQ8TA+ REYQ12TA x 2 |] | 400 to 1,040 (1,040) | 52 (52) |
| 34 | 95.0 | 850 | REYQ34TAH | REYQ10TA+ REYQ12TA x 2 | 1 | 425 to 1,105 (1,105) | 55 (55) |
| 36 | 101 | 900 | REYQ36TAH | REYQ12TA x 3 |] | 450 to 1,170 (1,170) | 58 (58) |

Note: *1. The outdoor unit multi connection piping kit (separately sold) is required for multiple connection.

Standard Type

| class | kW | Capacity index | Model name | Combination | Outdoor unit multi connection piping kit*1 | Total capacity index of connectable indoor units*2 | Maximum number of connectable indoor units*2 |
|-------|------|----------------|------------|-------------------------|--|--|--|
| 6 | 16.0 | 150 | REYQ6TA | REYQ6TA | - | 75 to 195 (300) | 9 (15) |
| 8 | 22.4 | 200 | REYQ8TA | REYQ8TA | - | 100 to 260 (400) | 13 (20) |
| 10 | 28.0 | 250 | REYQ10TA | REYQ10TA | - | 125 to 325 (500) | 16 (25) |
| 12 | 33.5 | 300 | REYQ12TA | REYQ12TA | - | 150 to 390 (600) | 19 (30) |
| 14 | 40.0 | 350 | REYQ14TA | REYQ14TA | - | 175 to 455 (700) | 22 (35) |
| 16 | 45.0 | 400 | REYQ16TA | REYQ16TA | - | 200 to 520 (800) | 26 (40) |
| 18 | 50.0 | 450 | REYQ18TA | REYQ18TA | - | 225 to 585 (900) | 29 (45) |
| 20 | 56.0 | 500 | REYQ20TA | REYQ20TA | _ | 250 to 650 (1,000) | 32 (50) |
| 22 | 61.5 | 550 | REYQ22TA | REYQ10TA + REYQ12TA | | 275 to 715 (880) | 35 (44) |
| 24 | 67.0 | 600 | REYQ24TA | REYQ12TA × 2 | | 300 to 780 (960) | 39 (48) |
| 26 | 73.5 | 650 | REYQ26TA | REYQ12TA + REYQ14TA | | 325 to 845 (1,040) | 42 (52) |
| 28 | 78.5 | 700 | REYQ28TA | REYQ12TA + REYQ16TA | BHFP26P90 | 350 to 910 (1,120) | 45 (56) |
| 30 | 83.5 | 750 | REYQ30TA | REYQ12TA + REYQ18TA | BHFP20P90 | 375 to 975 (1,200) | 48 (60) |
| 32 | 90.0 | 800 | REYQ32TA | REYQ16TA × 2 | | 400 to 1,040 (1,280) | 52 (64) |
| 34 | 95.0 | 850 | REYQ34TA | REYQ16TA + REYQ18TA | | 425 to 1,105 (1,360) | 55 (64) |
| 36 | 101 | 900 | REYQ36TA | REYQ16TA + REYQ20TA | | 450 to 1,170 (1,440) | 58 (64) |
| 38 | 107 | 950 | REYQ38TA | REYQ12TA × 2 + REYQ14TA | | 475 to 1,235 (1,235) | 61 (61) |
| 40 | 112 | 1,000 | REYQ40TA | REYQ12TA × 2 + REYQ16TA | | 500 to 1,300 (1,300) | |
| 42 | 118 | 1,050 | REYQ42TA | REYQ10TA + REYQ16TA × 2 | | 525 to 1,365 (1,365) | |
| 44 | 124 | 1,100 | REYQ44TA | REYQ12TA + REYQ16TA × 2 | | 550 to 1,430 (1,430) | |
| 46 | 130 | 1,150 | REYQ46TA | REYQ14TA + REYQ16TA × 2 | | 575 to 1,495 (1,495) | |
| 48 | 135 | 1,200 | REYQ48TA | REYQ16TA × 3 | BHFP26P136 | 600 to 1,560 (1,560) | |
| 50 | 140 | 1,250 | REYQ50TA | REYQ16TA × 2 + REYQ18TA | B111 F20F130 | 625 to 1,625 (1,625) | 64 (64) |
| 52 | 145 | 1,300 | REYQ52TA | REYQ16TA + REYQ18TA × 2 | | 650 to 1,690 (1,690) | |
| 54 | 150 | 1,350 | REYQ54TA | REYQ18TA × 3 | | 675 to 1,755 (1,755) | |
| 56 | 156 | 1,400 | REYQ56TA | REYQ18TA × 2 + REYQ20TA | | 700 to 1,820 (1,820) | |
| 58 | 162 | 1,450 | REYQ58TA | REYQ18TA + REYQ20TA × 2 | | 725 to 1,885 (1,885) | |
| 60 | 168 | 1,500 | REYQ60TA | REYQ20TA × 3 | | 750 to 1,950 (1,950) | |

Note: *1. For multiple connection of 22 class systems and above, the outdoor unit multi connection piping kit (separately sold) is required.

outdoor units, and 130% for triple outdoor units. Refer to page 42 for note on connection capacity of indoor units.

^{*2.} Values inside brackets are based on connection of indoor units rated at maximum capacity, 200% for single outdoor units, 160% for double outdoor units, and 130% for triple outdoor units. Refer to page 42 for note on connection capacity of indoor units.

^{*2.} Values inside brackets are based on connection of indoor units rated at maximum capacity, 200% for single outdoor units, 160% for double

IRI R SERIES Heat Recovery

■ Enhanced range of choices

| Ennanc | ed ran | ige or | C | n | O | IC | e | 5 | | | | | | | | | | |
|---|--------------|----------------------------|-----------|-----------|-----------|----------------------------|---|---|---------|-----|--------|-------------|-----------|-----|-----------------------|----------------------------|---|---|
| | | | | | | | | | | Nev | / line | up | | | | nits su rt con | ubject ntrol | t to |
| Type | Model Name | Capacity Range(kW) | 20 2.2 | 25 2.8 | 32 3.6 | 40 4.5 | 50 5.6 | 63 7.1 | 71 8 | 80 | 100 | 125 2 14 | 140 16 | | | 180 | 200 22.4 | - |
| | | Capacity Index | 20 | 25 | 31.25 | 40 | 50 | 62.5 | 71 | 80 | 100 | 125 | 140 | 145 | 160 | 180 | 200 | 250 |
| Ceiling Mounted Cassette (Round Flow with Sensing) | FXFSQ-AVM | | | | | | | | | | | | | | | | | |
| Ceiling Mounted Cassette (Round Flow) | FXFQ-PVE | | | | • | | • | • | | • | • | | | | | 1 | | |
| Ceiling Mounted Cassette (Compact Multi Flow) | FXZQ-A2VEB | | • | • | • | | • | 1 | | | | | | | | 1 | | |
| 4-Way Flow Ceiling Suspended | FXUQ-AVEB | | | | 1 | | 1 | 1 | • | | • | | | | | 1 | | |
| Ceiling Mounted Cassette (Double Flow) | FXCQ-AVM | | • | | • | | | | | | | | | | | | | |
| Ceiling Mounted Cassette (Single Flow) | FXEQ-AV36 | | • | | • | | | | | | | | | | 1 | 1 | | |
| Slim Ceiling Mounted Duct (Compact Series) | FXDQ-TV1B(A) | | • | • | • | | • | • | | | | | | | | | | |
| Slim Ceiling Mounted Duct | FXDQ-PDVE | (700mm width type) | • | | • | ! ! ! ! | ! ! ! | 1 | | | | | | | i i i i i | | | |
| (Standard Series) | FXDQ-NDVE | (900 / 1,100mm width type) | | 1 | | | | • | | | | | | | 1 | ! ! ! ! | | |
| Ceiling Concealed Duct | FXDYQ-MAV1 | | | | | ! ! ! ! ! | | | | • | • | | | • | | ! ! ! | | |
| Middle Static Pressure Ceiling Mounted Duct | FXSQ-PAVE | | • | | | | | | | • | | | | 1 | 1 1 1 1 1 | 1 1 1 1 1 | 1 | 1 |
| Ceiling Mounted | FXMQ-PAVE | | • | • | • | | • | • | | • | | | | | | | | |
| Duct | FXMQ-PV1A | | | | 1 | 1 1 1 1 1 | 1 1 1 1 1 | 1 | | | | | | | • | • | | |
| Outdoor-Air Processing Unit | FXMQ-MFV1 | | | 1 | 1 | | 1 | 1 | | | | | | | i ! ! ! | : : : : : : | | |
| Ceiling Suspended | FXHQ-MAVE | | | | • | | | • | | | • | | | | | 1 1 1 1 1 | 1 | 1 1 1 1 1 |
| - | FXHQ-AVM | | | | | 1 1 1 1 1 1 | 1 1 1 1 1 1 | 1 | | | | | | | | | | |
| Wall Mounted | FXAQ-AVM | | | | | | | | | | | | | | | | | |
| Floor Standing | FXLQ-MAVE | | • | • | • | | • | • | | | | | | | | | | |
| Concealed Floor Standing | FXNQ-MAVE | | | | • | | | | | | | | | | | | | |
| Heat Reclaim Ventilator with DX-Coil and Humidifier | VKM-GA(M)V1 | | Ai | irflow | / rate | e 500 | 0-10 | 00 m | n³/h | | | | | | | | | |

Airflow rate 150-2000 m³/h

Note: For indoor units without 'VRT Smart', the standard 'VRT' control is available (excludes Heat Reclaim Ventilators & Outdoor-Air Processing Unit).

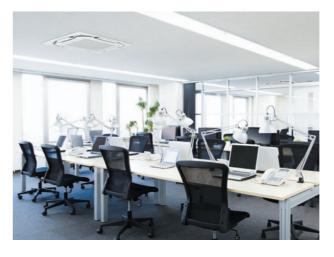
VAM-GJVE

Heat Reclaim Ventilator





- If a system has indoor units subject to both VRT smart and VRT control, the system is operated under VRT control.
- If a system has both outdoor-air processing air conditioners and outdoor-air processing type indoor units, VRT smart













Specifications

JRJ R SERIES Heat Recovery

■ VRV R Series Outdoor Units Heat Recovery **REYQ-TA**

High-COP Type

| | | | | | | | | | | | 111 | | |
|--------------------|---------------------------|--------|-----------------|-----------------|---------------------------------|-----------------|-----------------|---------------------------------|--|-------------------------|--------------------------------------|-------------------------|-------------------------|
| Model | | | REYQ12TAHY1 | REYQ14TAHY1 | REYQ16TAHY1 | REYQ18TAHY1 | REYQ20TAHY1 | | REYQ22TAHY1 | REYQ24TAHY1 | REYQ26TAHY1 | REYQ28TAHY1 | REYQ30TAHY1 |
| | | | REYQ6TAY1 | REYQ6TAY1 | REYQ8TAY1 | REYQ8TAY1 | REYQ8TAY1 | | REYQ6TAY1 | REYQ8TAY1 | REYQ8TAY1 | REYQ8TAY1 | REYQ8TAY1 |
| Combination | n units | | REYQ6TAY1 | REYQ8TAY1 | REYQ8TAY1 | REYQ10TAY1 | REYQ12TAY1 | | REYQ8TAY1 | REYQ8TAY1 | REYQ8TAY1 | REYQ8TAY1 | REYQ10TAY1 |
| | | | _ | _ | _ | - | _ | | REYQ8TAY1 | REYQ8TAY1 | REYQ10TAY1 | REYQ12TAY1 | REYQ12TAY1 |
| Power supply | у | | | 3-pha | se 4-wire system, 380-415 V, | , 50 Hz | | | | 3 | phase 4-wire system, 380-415 V, 50 H | -lz | |
| Cooling cons | noity. | Btu/h | 109,000 | 131,000 | 153,000 | 172,000 | 191,000 | | 207,000 | 229,000 | 248,000 | 267,000 | 286,000 |
| Cooling capa | acity | kW | 32.0 | 38.4 | 44.8 | 50.4 | 55.9 | | 60.8 | 67.2 | 72.8 | 78.3 | 83.9 |
| Heating capa | acity. | Btu/h | 123,000 | 147,000 | 171,000 | 193,000 | 213,000 | | 232,000 | 256,000 | 278,000 | 299,000 | 321,000 |
| rieating capa | acity | kW | 36.0 | 43.0 | 50.0 | 56.5 | 62.5 | | 68.0 | 75.0 | 81.5 | 87.5 | 94.0 |
| Power | Cooling | kW | 6.76 | 8.54 | 10.3 | 12.2 | 13.8 | | 13.7 | 15.5 | 17.4 | 19.0 | 20.9 |
| consumption | 1 Heating | kW | 7.46 | 9.41 | 11.4 | 13.0 | 14.9 | | 15.1 17.0 18.7 20.6 22 | | | | |
| Capacity con | ntrol | % | | 10-100 | | 8- | -100 | | 7-100 6-100 5-100 | | | | |
| Casing colou | ır | | | | Ivory white (5Y7.5/1) | | | | | | Ivory white (5Y7.5/1) | | |
| Compressor | Туре | | | ı | Hermetically sealed scroll type | е | | | | | Hermetically sealed scroll type | | |
| Compressor | Motor output | kW | (2.3×1)+(2.3×1) | (2.3×1)+(3.3×1) | (3.3×1)+(3.3×1) | (3.3×1)+(4.0×1) | (3.3×1)+(4.9×1) | | (2.3×1)+(3.3×1)+(3.3×1) | (3.3x1)+(3.3x1)+(3.3x1) | (3.3×1)+(3.3×1)+(4.0×1) | (3.3×1)+(3.3×1)+(4.9×1) | (3.3×1)+(4.0×1)+(4.9×1) |
| Airflow rate | | ℓ/s | 1,983+1,983 | 1,983+2,633 | 2,633+2,633 | 2,633+2,800 | 2,633+3,000 | | 1,983+2,633+2,633 | 2,633+2,633+2,633 | 2,633+2,633+2,800 | 2,633+2,633+3,000 | 2,633+2,800+3,000 |
| Alfilow fale | | m³/min | 119+119 | 119+158 | 158+158 | 158+168 | 158+180 | | 119+158+158 | 158+158+158 | 158+158+168 | 158+158+180 | 158+168+180 |
| Dimensions (| (H×W×D) | mm | | (1, | 657×930×765)+(1,657×930×7 | 765) | | | | (1,657× | 930×765)+(1,657×930×765)+(1,657×9 | 30×765) | |
| Machine weig | ght | kg | | 215+215 | | 215 | 5+230 | | 215+2 | 215+215 | 215+2 | 15+230 | 215+230+230 |
| Sound level | | dB(A) | | 59 | | 60 | 61 | | | 61 | | | 52 |
| Sound power | r | dB(A) | | 80 | | 81 | 82 | | | 82 | | 1 | 33 |
| | Cooling | °CDB | | | -5 to 49 | | | | | | -5 to 49 | | |
| Operation range | Heating | °CWB | | | -20 to 15.5 | | | | | | -20 to 15.5 | | |
| | Cooling & Heating | °CWB | | | -6 to 15.5 | | | | -6 to 15.5 | | | | |
| D () | Туре | | | | R-410A | | | | | | R-410A | | |
| Refrigerant | Charge | kg | | 9.7+9.7 | | 9.7+9.8 | 9.7+9.9 | | 9.7+9.7+9.7 9.7+9.8 9.7+9.7+9.9 9.7+9.8+9. | | | 9.7+9.8+9.9 | |
| D: : | Liquid | mm | | φ12.7 (Brazing) | | φ15.9 | (Brazing) | φ15.9 (Brazing) φ19.1 (Brazing) | | | | | |
| Piping connections | Gas | mm | | | φ28.6 (Brazing) | | | | φ28.6 (Brazing) | | ф34.9 (| Brazing) | |
| CONTROCTIONS | High and low pressure gas | mm | φ19.1 (Brazing) | | φ22.2 (Brazing) | | φ28.6 (Brazing) | | | | φ28.6 (Brazing) | | |

| Model | | | REYQ32TAHY1 | REYQ34TAHY1 | REYQ36TAHY1 | | | | | | |
|-----------------|---------------------------|--------|-------------------------|---------------------------------|-------------------------|--|--|--|--|--|--|
| | | | REYQ8TAY1 | REYQ10TAY1 | REYQ12TAY1 | | | | | | |
| Combinatio | n units | | REYQ12TAY1 | REYQ12TAY1 | REYQ12TAY1 | | | | | | |
| | | | REYQ12TAY1 | REYQ12TAY1 | REYQ12TAY1 | | | | | | |
| Power supp | у | | 3-pha | se 4-wire system, 380-415 V, | 50 Hz | | | | | | |
| 0" | | Btu/h | 305,000 | 324,000 | 345,000 | | | | | | |
| Cooling cap | acity | kW | 89.4 | 95.0 | 101 | | | | | | |
| Hanking com | : | Btu/h | 341,000 | 365,000 | 386,000 | | | | | | |
| Heating cap | acity | kW | 100 | 107 | 113 | | | | | | |
| Power | Cooling | kW | 22.5 | 24.4 | 26.0 | | | | | | |
| consumption | 1 Heating | kW | 24.1 | 25.7 | 27.7 | | | | | | |
| Capacity co | ntrol | % | | 5-100 | | | | | | | |
| Casing color | ır | | | Ivory white (5Y7.5/1) | | | | | | | |
| 0 | Туре | | ŀ | Hermetically sealed scroll type | e | | | | | | |
| Compressor | Motor output | kW | (3.3x1)+(4.9x1)+(4.9x1) | (4.0x1)+(4.9x1)+(4.9x1) | (4.9x1)+(4.9x1)+(4.9x1) | | | | | | |
| A ! fl | | ℓ/s | 2,633+3,000+3,000 | 2,800+3,000+3,000 | 3,000+3,000+3,000 | | | | | | |
| Airflow rate | | m³/min | 158+180+180 | 168+180+180 | 180+180+180 | | | | | | |
| Dimensions | (H×W×D) | mm | (1,657×930× | (765)+(1,657×930×765)+(1,65 | 7×930×765) | | | | | | |
| Machine we | ght | kg | 215+230+230 | 230+2 | 30+230 | | | | | | |
| Sound level | <u> </u> | dB(A) | 6 | 3 | 64 | | | | | | |
| Sound power | r | dB(A) | 8 | 4 | 85 | | | | | | |
| | Cooling | °CDB | | -5 to 49 | | | | | | | |
| Operation range | Heating | °CWB | | -20 to 15.5 | | | | | | | |
| range | Cooling & Heating | °CWB | | -6 to 15.5 | | | | | | | |
| | Type | | | R-410A | | | | | | | |
| Refrigerant | Charge | kg | 9.7+9.9+9.9 | 9.8+9.9+9.9 | 9.9+9.9+9.9 | | | | | | |
| | Liquid | mm | | | | | | | | | |
| Piping | Gas | mm | ф34.9 (Е | φ41.3 (Brazing) | | | | | | | |
| connections + | High and low pressure gas | mm | 12.27 | | | | | | | | |

Note: Specifications are based on the following conditions;

•Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.

•Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.

•Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.

When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

Specifications

VRV R SERIES Heat Recovery

■ VRV R Series Outdoor Units Heat Recovery **REYQ-TA**

Standard Type

| Model | | | REYQ6TAY1 | REYQ8TAY1 | REYQ10TAY1 | REYQ12TAY1 | REYQ14TAY1 | REYQ16TAY1 | REYQ18TAY1 | REYQ20TAY1 | REYQ22TAY1 | REYQ24TAY1 | REYQ26TAY1 | REYQ28TAY1 | REYQ30TAY1 | REYQ32TAY1 |
|----------------------|---------------------------|--------|------------|----------------|----------------------|----------------|-----------------|-----------------|-----------------|-----------------|---|--------------------|-------------------------|-------------------------|-------------------------|----------------------------------|
| Combination | unite | | _ | _ | _ | _ | _ | _ | _ | _ | REYQ10TAY1 | REYQ12TAY1 | REYQ12TAY1 | REYQ12TAY1 | REYQ12TAY1 | REYQ16TAY1 |
| | | | - | - | _ | _ | _ | - | _ | - | REYQ12TAY1 | REYQ12TAY1 | REYQ14TAY1 | REYQ16TAY1 | REYQ18TAY1 | REYQ16TAY |
| ower supply | | | | | 3-phase 4-wire syste | | | | | | 3-phase 4-wire system, 380-415 V, 50 Hz | | | | | |
| Cooling capac | eitv | Btu/h | 54,600 | 76,400 | 95,500 | 114,000 | 136,000 | 154,000 | 171,000 | 191,000 | 210,000 | 229,000 | 251,000 | 268,000 | 285,000 | 307,000 |
| 9 | | kW | 16.0 | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 50.0 | 56.0 | 61.5 | 67.0 | 73.5 | 78.5 | 83.5 | 90.0 |
| Heating capac | city | Btu/h | 61,400 | 85,300 | 107,000 | 128,000 | 154,000 | 171,000 | 191,000 | 215,000 | 235,000 | 256,000 | 281,000 | 299,000 | 319,000 | 341,000 |
| | | kW | 18.0 | 25.0 | 31.5 | 37.5 | 45.0 | 50.0 | 56.0 | 63.0 | 69.0 | 75.0 | 82.5 | 87.5 | 93.5 | 100 |
| Power consumption | Cooling | kW | 3.38 | 5.16 | 7.04 | 8.66 | 10.9 | 13.0 | 15.4 | 18.0 | 15.7 | 17.3 | 19.6 | 21.7 | 24.1 | 26.0 |
| | | kW | 3.73 | 5.68 | 7.29 16-100 | 9.22 15-100 | 10.8 | 12.7 | 15.0 | 17.5 | 16.5 | 18.4 | 20.0 | 21.9 | 24.2 | 25.4 |
| apacity contr | | % | 20- | 100 | lvory white | | 11-100 | 10-100 | | 8 | -100 | luon, wh | ite (5Y7.5/1) | -100 | 5-1 | 100 |
| asing colour | Туре | | | | Hermetically se | | | | | | | | sealed scroll type | | | |
| ompressor | Motor output | kW | 2.3x1 | 3.3x1 | 4.0x1 | 4.9x1 | (3.0×1)+(3.1×1) | (3.4×1)+(3.7×1) | (3.6×1)+(5.0×1) | (4.0×1)+(6.1×1) | (4.0×1)+(4.9×1) | (4.9×1)+(4.9×1) | (4.9×1)+(3.0×1)+(3.1×1) | (4.9×1)+(3.4×1)+(3.7×1) | (4.9×1)+(3.6×1)+(5.0×1) | (3.4×1)+(3.7×1 (3.4×1)+(3.7× |
| | | ℓ/s | 1,983 | 2,633 | 2,800 | 3,000 | 3,900 | 3,983 | 3,767 | 4,483 | 2,800+3,000 | 3,000+3,000 | 3,000+3,900 | 3,000+3,983 | 3,000+3,767 | 3,983+3,983 |
| irflow rate | | m³/min | 119 | 158 | 168 | 180 | 234 | 239 | 226 | 269 | 168+180 | 180+180 | 180+234 | 180+239 | 180+226 | 239+239 |
| mensions (H | I×W×D) | mm | | 1,657× | | | | ,240×765 | | ′×1,240×765 | |)+(1,657×930×765) | | 7×930×765)+(1,657×1,24 | | (1,657×1,240×7 (1,657×1,240×7 |
| achine weigh | ht | kg | 21 | 15 | 23 | 30 | 3 | 10 | | 342 | 230 |) + 230 | 230 | 0+310 | 230+342 | 310+310 |
| ound level | | dB(A) | 5 | | 57 | 59 | 60 | 61 | 62 | 65 | 61 | 62 | | 63 | 6 | |
| ound power | | dB(A) | 7 | 7 | 78 | 80 | 81 | 82 | 83 | 86 | 82 | 83 | | 84 | 8 | 5 |
| | Cooling | °CDB | | | -5 to | o 49 | ' | · | | | | -5 | to 49 | | | |
| neration \vdash | Heating | °CWB | | | -20 to | 15.5 | | | | | | -20 | to 15.5 | | | |
| | Cooling & Heating | °CWB | | | -6 to | 15.5 | | | | | | -61 | o 15.5 | | | |
| , T | ype | | | | R-4 | 10A | | | | | | R- | 410A | | | |
| efrigerant C | Charge | kg | 9. | .7 | 9.8 | 9.9 | 1 | 1.8 | | 11.8 | 9.8+9.9 | 9.9+9.9 | | 9.9+11.8 | | 11.8+11.8 |
| L | iquid | mm | | φ9.5 (Brazing) | | | φ12.7 (Brazing) | | | φ15.9 | (Brazing) | | | φ19.1 (I | Brazing) | |
| iping onnections | as | mm | φ19.1 (E | 07 | φ22.2 (Brazing) | | φ28.6 (Brazing) | | | φ28.6 (Brazing) | | | | φ 34.9 (Brazing) | | |
| | ligh and low pressure gas | mm | φ15.9 (E | Brazing) | φ19.1 (E | Brazing) | φ22.2 (| Brazing) | φ22.2 (Brazing) | | | | φ28.6 (Brazing) | | | |
| | | | | | | | | | | | | | | | | |
| odel | | | REYQ34TAY1 | REYQ36TAY1 | REYQ38TAY1 | REYQ40TAY1 | REYQ42TAY1 | REYQ44TAY1 | REYQ46TAY1 | REYQ48TAY1 | REYQ50TAY1 | REYQ52TAY1 | REYQ54TAY1 | REYQ56TAY1 | REYQ58TAY1 | REYQ60TA |

| Model | | | REYQ34TAY1 | REYQ36TAY1 | REYQ38TAY1 | REYQ40TAY1 | REYQ42TAY1 | REYQ44TAY1 | | REYQ46TAY1 | REYQ48TAY1 | REYQ50TAY1 | REYQ52TAY1 | REYQ54TAY1 | REYQ56TAY1 | REYQ58TAY1 | REYQ60TAY1 |
|--------------------|---------------------------|--------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---|---|-----------------|-------------------|-------------------|-------------------|-----------------------|---|-------------------|-------------------|-------------------|
| | | | REYQ16TAY1 | REYQ16TAY1 | REYQ12TAY1 | REYQ12TAY1 | REYQ10TAY1 | REYQ12TAY1 | | REYQ14TAY1 | REYQ16TAY1 | REYQ16TAY1 | REYQ16TAY1 | REYQ18TAY1 | REYQ18TAY1 | REYQ18TAY1 | REYQ20TAY1 |
| Combination | units | | REYQ18TAY1 | REYQ20TAY1 | REYQ12TAY1 | REYQ12TAY1 | REYQ16TAY1 | REYQ16TAY1 | | REYQ16TAY1 | REYQ16TAY1 | REYQ16TAY1 | REYQ18TAY1 | REYQ18TAY1 | REYQ18TAY1 | REYQ20TAY1 | REYQ20TAY1 |
| | | | - | _ | REYQ14TAY1 | REYQ16TAY1 | REYQ16TAY1 | REYQ16TAY1 | | REYQ16TAY1 | REYQ16TAY1 | REYQ18TAY1 | REYQ18TAY1 | REYQ18TAY1 | REYQ20TAY1 | REYQ20TAY1 | REYQ20TAY1 |
| Power supply | 1 | | | | 3-phase 4-wire syste | m, 380-415 V, 50 Hz | | | | | | | 3-phase 4-wire syst | em, 380-415 V, 50 Hz | | | |
| Cooling capa | city | Btu/h | 324,000 | 345,000 | 365,000 | 382,000 | 403,000 | 423,000 | | 444,000 | 461,000 | 478,000 | 495,000 | 512,000 | 532,000 | 553,000 | 573,000 |
| Cooling capa | City | kW | 95.0 | 101 | 107 | 112 | 118 | 124 | | 130 | 135 | 140 | 145 | 150 | 156 | 162 | 168 |
| Heating capa | city | Btu/h | 362,000 | 386,000 | 409,000 | 427,000 | 450,000 | 471,000 | | 495,000 | 512,000 | 532,000 | 553,000 | 573,000 | 597,000 | 621,000 | 645,000 |
| ricating capa | | kW | 106 | 113 | 120 | 125 | 132 | 138 | | 145 | 150 | 156 | 162 | 168 | 175 | 182 | 189 |
| Power | Cooling | kW | 28.4 | 31.0 | 28.2 | 30.3 | 33.0 | 34.7 | | 36.9 | 39.0 | 41.4 | 43.8 | 46.2 | 48.8 | 51.4 | 54.0 |
| consumption | Heating | kW | 27.7 | 30.2 | 29.2 | 31.1 | 32.7 | 34.6 | | 36.2 | 38.1 | 40.4 | 42.7 | 45.0 | 47.5 | 50.0 | 52.5 |
| Capacity con | trol | % | | | 4-1 | 00 | | | | | | | | 100 | | | |
| Casing colour | r | | | | Ivory white | e (5Y7.5/1) | | | | | | | Ivory whit | te (5Y7.5/1) | | | |
| | Туре | | | | Hermetically se | aled scroll type | | | | | | | Hermetically s | ealed scroll type | | | |
| Compressor | Motor output | kW | (3.4×1)+(3.7×1)+ (3.6×1)+(5.0×1) | (3.4×1)+(3.7×1)+ (4.0×1)+(6.1×1) | (4.9×1)+(4.9×1)+ (3.0×1)+(3.1×1) | (4.9x1)+(4.9x1)+ (3.4x1)+(3.7x1) | (4.0×1)+(3.4×1)+ (3.7×1)+(3.4×1)+(3.7×1) | (4.9×1)+(3.4×1)+ (3.7×1)+(3.4×1)+(3.7×1) | | | | | | (3.6×1)+(5.0×1)+(3.6×1)+ (5.0×1)+(3.6×1)+(5.0×1) | | | |
| Airflow rate | | ℓ/s | 3,983+3,767 | 3,983+4,483 | 3,000+3,000+3,900 | 3,000+3,000+3,983 | 2,800+3,983+3,983 | 3,000+3,983+3,983 | | 3,900+3,983+3,983 | 3,983+3,983+3,983 | 3,983+3,983+3,767 | 3,983+3,767+3,767 | -,,, - | 3,767+3,767+4,483 | 3,767+4,483+4,483 | 4,483+4,483+4,483 |
| All llow rate | | m³/min | 239+226 | 239+269 | 180+180+234 | 180+180+239 | 168+239+239 | 180+239+239 | | 234+239+239 | 239+239+239 | 239+239+226 | 239+226+226 | 226+226+226 | 226+226+269 | 226+269+269 | 269+269+269 |
| Dimensions (F | H×W×D) | mm | (1,657×1,240×765)- | +(1,657×1,240×765) | (1,657×930×765)· +(1,657×1 | | | -(1,657×1,240×765) 1,240×765) | | | | (1,65) | 7×1,240×765)+(1,657×1 | ,240×765)+(1,657×1,240 | 0×765) | | |
| Machine weig | ght | kg | 310- | +342 | 230+2 | 30+310 | 230+3 | 10+310 | | 310+3 | 10+310 | 310+310+342 | 310+342+342 | | 342+3 | 42+342 | |
| Sound level | | dB(A) | 65 | 66 | 64 | | 65 | | | 65 | | 66 | | 67 | 68 | 69 | 70 |
| Sound power | | dB(A) | 86 | 87 | 85 | | 86 | | | 86 | | 87 | | 88 | 89 | 90 | 91 |
| | Cooling | °CDB | | | -5 t | 49 | | | | | | | -5 | to 49 | | | |
| Operation | Heating | °CWB | | | -20 to | 15.5 | | | | | | | -20 t | to 15.5 | | | |
| 19 | Cooling & Heating | °CWB | | | -6 to | 15.5 | | | -6 to 15.5 | | | | | | | | |
| Defilerent | Туре | | | | R-4 | 10A | | | R-410A | | | | | | | | |
| Refrigerant | Charge | kg | 11.8- | +11.8 | 9.9+9. | 9+11.8 | 9.8+11.8+11.8 | 9.9+11.8+11.8 | .8 11.8+11.8 | | | | | | | | |
| | Liquid | mm | | | φ19.1 (I | Brazing) | | | φ19.1 (Brazing) | | | | | | | | |
| Piping connections | Gas | mm | φ34.9 (Brazing) | | | φ41.3 (Brazing) | | | φ41.3 (Brazing) | | | | | | | | |
| | High and low pressure gas | mm | ф28.6 (Е | Brazing) | | ф34.9 (Е | Brazing) | | | | | | ф34.9 | (Brazing) | | | |

- Note: Specifications are based on the following conditions;

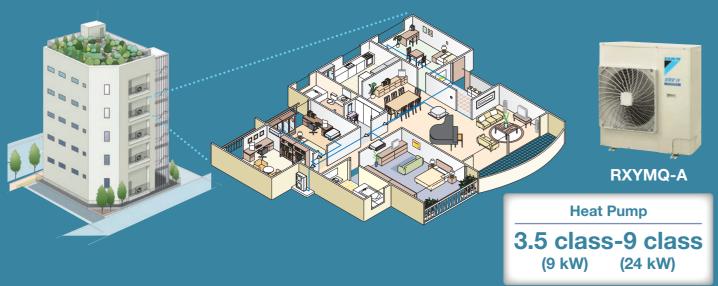
 •Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.

Heating: Indoor temp.: 20°CDB, Outdoor temp.: 3°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
 Heating: Indoor temp:: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
 Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.
 During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.

When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

URVINITION IN SERIES

The Ideal Air Conditioning



Compact & lightweight design

The new design has been optimised for the VRV IV S series, with the height of 3.5 class to 5 class models reduced to only 990 mm. This design gives the building a sleek look externally and provides the occupants with a clear, unobstructed view of the scenery. The VRV IV S series is now slim and compact, with outdoor units that require minimal installation space.





System for Residential, Small Offices and Shops IN Series



Enhanced lineup

To suit a variety of room sizes, VRV IV S series expands our range to include 3.5 class, 8 class and 9 class.

VRV IV S SERIES

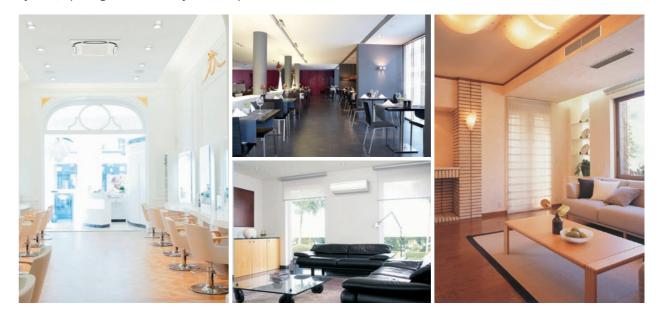


Lineup

| Model Name | RXYMQ3AV4A | RXYMQ4AV4A | RXYMQ5AV4A | RXYMQ6AV4A | RXYMQ8AY1 | RXYMQ9AY1 |
|----------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Power Supply | | 1-phase, 230 | -240 V, 50 Hz | | 3-phase, 380 | -415 V, 50 Hz |
| Capacity Range | 3.5 class (9.0 kW) | 4 class (11.2 kW) | 5 class (14.0 kW) | 6 class (16.0 kW) | 8 class (22.4 kW) | 9 class (24.0 kW) |
| Capacity Index | 80 | 100 | 125 | 150 | 200 | 215 |

Wide variety of indoor units

Indoor units can be selected from 2 lineups, both VRV and residential indoor units, to match rooms and preferences. A mixed combination of VRV indoor units and residential indoor units can be included into one system, opening the door to stylish and quiet indoor units.



Energy saving

Higher Coefficient of Performance (COP)

VRV IV S series provides greater energy saving as compared to VRV III S series, especially for 6 class.



*Cooling operation conditions: Indoor temp. of 27°CDB,19°CWB, and outdoor temp. of 35°CDB.

VRV II S IN S SERIES

Quiet operation

Nighttime quiet operation function

Operation sound level selectable from 3 steps for the night mode

Mode 1. Automatic mode

Set on the outdoor PCB. Time of maximum temperature is memorised. The low operating mode will initiate 8 hours*1 after the peak temperature in the daytime, and normal operation will resume 10 hours*2 after that. The operation sound level for the night mode can be selected from 49 dB(A) (Step 1), 46 dB(A) (Step 2) and 43 dB(A) (Step 3).*3

Mode 2. Manual mode

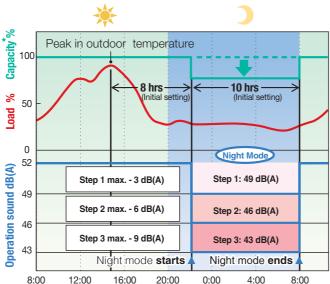
Starting time and ending time can be input. (An external control adaptor for outdoor unit, DTA104A53/61/62, and a locally obtained timer are necessary.)

Mode 3. Combined mode

Combinations of modes 1 and 2 can be used depending on your

- *1. Initial setting. Can be selected from 6, 8 and 10 hours.
- *2. Initial setting. Can be selected from 8, 9 and 10 hours.
- *3. In case of 4 class outdoor unit during cooling operation

Mode 1. Automatic mode



Note: • This function is available in setting at site.

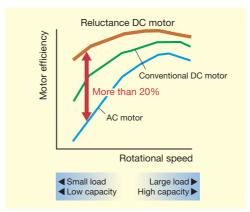
- The relationship of outdoor temperature (load) and time shown in the graph is just an example
- *The capacity reduction rate differs depending on the operation sound level step selected.

Collection of cutting-edge technologies realises efficient and quiet operation

The high efficiency compressor to achieve a higher COP

1 Compressor equipped with Reluctance DC motor

Daikin DC inverter models are equipped with the Reluctance DC motor for compressor. The Reluctance DC motor uses 2 different types of torque, neodymium magnet*1 and reluctance torque*2. This motor can save energy because it generates more power with a smaller electric power than an AC or conventional DC motor.





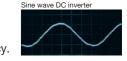


Note: Data are based on studies conducted under controlled conditions at a Daikin laboratory using Daikin products

- *1 A neodymium magnet is approximately 10 times stronger than a standard ferrite magnet.
 *2 The torque created by the change in power between the iron and magnet parts.

>> Smooth sine wave DC inverter

Use of an optimised sine wave smoothes motor rotation, further improving operating efficiency.



>> Swing compressor

Daikin swing compressor has integrated the rotor with the blade, completely solving the refrigerant leakage and the wear problem caused by the mechanical friction between the rotor and the blade, which enhances the compressor efficiency and makes the compressor more quiet and durable.

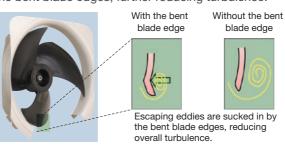


3.5. 4. 5 class

>> The structural scroll Sucked gas is compressed in the scrolling part before the heated motor, so that Discharge the machine compress the non-expanded gas, resulting in high efficiency compression.

2 Smooth Air Inlet Bell Mouth and Aero Spiral Fan

These two features work to reduce sound. Guides are added to the bell mouth intake to reduce turbulence in the airflow generated by fan suction. The Aero Spiral Fan features fan blades with the bent blade edges, further reducing turbulence.





Efficiency improved in all areas compared to conventional AC motors, especially at low speeds.

DC fan motor structure





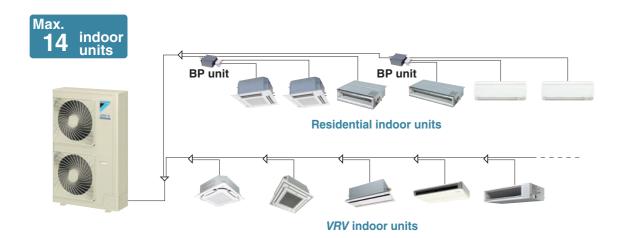
Design Flexibility and Simplified Installation



Connectable up to 14 indoor units

As many as 14 indoor units can be connected to a single outdoor unit, making the **VRV** IV S series a remarkably versatile system.

Note: Refer to page 61 for the maximum number of connectable indoor unit.



Automatic test operation

Simply press the test operation button and the unit performs an automatic system check, including wiring, stop valves, piping, and refrigerant charging amount. The results are returned automatically after the check finishes.

Simple wiring and piping connection

Unique piping and wiring systems make it possible to install a VRV IV S series quickly and easily.

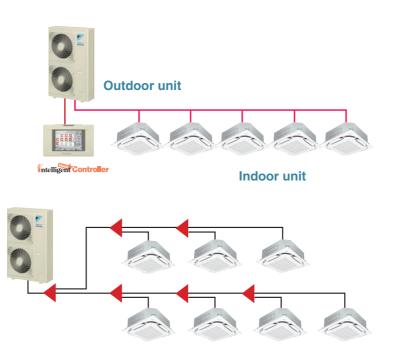
>> Super wiring system

A super wiring system is used to enable shared use of the wiring between indoor and outdoor units and the central control wiring, with a relatively simple wiring operation.

The DIII-NET communication system is employed to enable the use of advanced control systems.

>> REFNET piping system

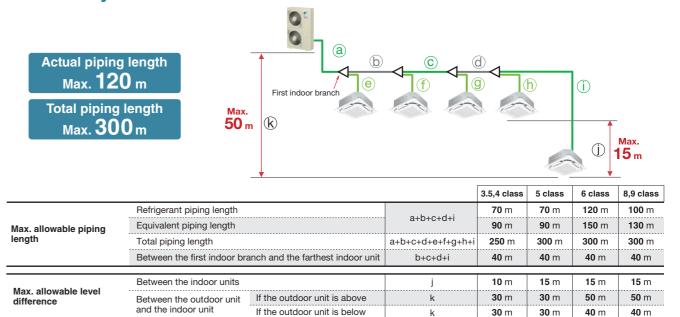
Daikin's advanced REFNET piping system makes installation easy. Only two main refrigerant lines are required in any one system. REFNET greatly reduces the imbalances in refrigerant flow between units, while using small-diameter piping.



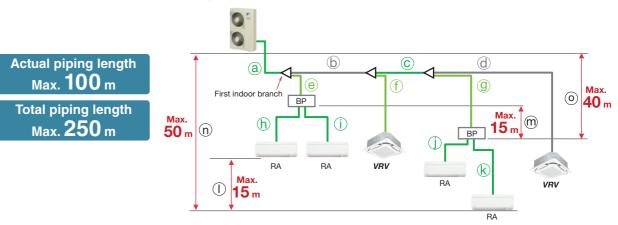
Long piping design possible

Long piping length offers flexibility in the choice of installation positions, and simplifies system planning.

When only VRV indoor units are connected



When a mixed combination of *VRV* and residential indoor units is connected or when only residential indoor units are connected



| | | | | 3.5,4 class | 5 class | 6-9 class |
|---------------------------------|-------------------------------|-------------------------------------|-----------------------|--------------|--------------|-------------------------|
| | Refrigerant piping length | | | 70 m | 70 m | 100 m |
| Max. allowable piping | Equivalent piping length | | a+b+c+g+k, a+b+c+d | 90 m | 90 m | 125 m |
| length | Total piping length | | a+b+c+d+e+f+g+h+i+j+k | 250 m | 250 m | 250 m |
| | The first indoor branch - th | ne farthest BP or VRV indoor unit | b+c+g, b+c+d | 40 m | 40 m | 40 m |
| Max. & min. | | If indoor unit capacity index < 60 | | 2 m-15 m | 2 m-15 m | 2 m-15 m |
| allowable piping | BP unit - indoor unit | If indoor unit capacity index is 60 | h, i, j, k | 2 m-12 m | 2 m-12 m | 2 m– 12 m |
| length | | If indoor unit capacity index is 71 | | 2 m-8 m | 2 m-8 m | 2 m-8 m |
| Min. allowable piping length | Outdoor unit - the first inde | oor branch | а | 5 m | 5 m | 5 m |
| | Between the indoor units | | I | 10 m | 15 m | 15 m |
| | Between BP units | | m | 10 m | 15 m | 15 m |
| Max. allowable level difference | Outdoor unit - the indoor | If the outdoor unit is above | n | 30 m | 30 m | 50 m |
| | unit | If the outdoor unit is below | n | 30 m | 30 m | 40 m |
| | Outdoor unit - the BP unit | | 0 | 30 m | 30 m | 40 m |

VRV IV S SERIES Heat Pump

■ Enhanced range of choices

A mixed combination of **VRV** indoor units and residential indoor units can be included into one system, opening the door to stylish and quiet indoor units.

| /RV indoor units | | | | | | | | | | | | | | | | | w line | |
|---|--------------|----------------------------|-----|----------------------------|-------|-----|-----------------------|------|-----------------------|------|------|-----|-----|------|-----|-----|--------|----|
| | | | 20 | 25 | 32 | 40 | 50 | 63 | 71 | 80 | 100 | _ | 140 | | 160 | | 200 | _ |
| Туре | Model Name | Capacity Range(kW) | 2.2 | | 3.6 | | | | | | 11.2 | 14 | | 16.2 | | | 22.4 | |
| Ceiling Mounted Cassette | F)/F00 A)/A4 | Capacity Index | 20 | 25 | 31.25 | 40 | 50 | 62.5 | 71 | 80 | 100 | 125 | 140 | 145 | 160 | 180 | 200 | 25 |
| (Round Flow with Sensing) | FXFSQ-AVM | | | | | | | | | | | | | | | | | |
| Ceiling Mounted Cassette (Round Flow) | FXFQ-PVE | | | • | | | • | | | | | | | | | | | |
| Ceiling Mounted Cassette (Compact Multi Flow) | FXZQ-A2VEB | | | • | • | • | • | 1 | | | | | | | | | | |
| 4-Way Flow Ceiling Suspended | FXUQ-AVEB | | | | | | | 1 | • | | • | | | | | | | 1 |
| Ceiling Mounted Cassette (Double Flow) | FXCQ-AVM | | | | | | | • | | | | | | | | | | |
| Ceiling Mounted Cassette (Single Flow) | FXEQ-AV36 | | | • | | | • | • | 1 | | | | | | | | | |
| Slim Ceiling Mounted Duct (Compact Series) | FXDQ-TV1B(A) | | • | • | • | • | • | • | 1 | 1 | | | | | | | | |
| Slim Ceiling Mounted Duct | FXDQ-PDVE | (700mm width type) | | | | | | | ! ! ! | | | | | | | | | 1 |
| (Standard Series) | FXDQ-NDVE | (900 / 1,100mm width type) | | | | | | • | | | | | | | | | | 1 |
| Ceiling Concealed Duct | FXDYQ-MAV1 | | | | | | | | | | | • | | • | | | | |
| Middle Static Pressure Ceiling Mounted Duct | FXSQ-PAVE | | | • | | | • | • | 1 1 1 1 1 | | • | | | | | | | 1 |
| Ceiling Mounted | FXMQ-PAVE | | | • | • | | • | • | | • | • | • | • | | | | | |
| Duct | FXMQ-PV1A | | | | | | | | | | | | | | | • | | |
| Outdoor-Air Processing Unit | FXMQ-MFV1 | | | | | | | | | | | | | | | | | |
| Ceiling Suspended | FXHQ-MAVE | | | 1 | • | | | • | | | | | | | | | | |
| | FXHQ-AVM | | | 1 1 1 1 1 1 | | | 1 1 1 1 1 | | 1 1 1 1 1 | | | | | | | | | |
| Wall Mounted | FXAQ-AVM | | | | | | | | | 1 | | | | | | | | |
| Floor Standing | FXLQ-MAVE | | • | • | • | | • | • | | | | | | | | | | |
| Concealed Floor Standing | FXNQ-MAVE | F | | • | • | | • | | I I I I I | | | | | | | | | |
| Heat Reclaim Ventilator | VAM-GJVE | 001 | Δi | rflow | rate | 150 |)-20 | 00 m | 3/h | | | | | | | | | |

Residential indoor units with connection to BP units

| i iooiaoiitiai iiit | acci dilits wi | in connection to | Di dilli | LJ | | | | |
|---|----------------|---------------------------|----------|-----|-----|-----|-----|-----|
| | | | 20 | 25 | 35 | 50 | 60 | 71 |
| Type | Model Name | Rated Capacity (kW) | 2.0 | 2.5 | 3.5 | 5.0 | 6.0 | 7.1 |
| | | Capacity Index | 20 | 25 | 35 | 50 | 60 | 71 |
| Ceiling Mounted Cassette (Compact Multi Flow) | FFQ-BV1B | | | | | | | |
| Slim Ceiling Mounted Duct | FDXS-CVMA | (900/1,100 mm width type) | | | | | | |
| Wall | FTXS-KVMA | | | | | | | |
| Mounted | FTXS-KAVMA | 75. I 19 | | | | | | |

Note: BP units are necessary for residential indoor units.

VRV indoor units combine with residential indoor units, all in one system.



 ${}^{\star}\text{Refer}$ to page 61 for the maximum number of connectable indoor units.

VRV IV S SERIES

■ VRV IV S Series Outdoor Units Heat Pump RXYMQ-A

| | | | | | | 0: | 0 | | |
|------------------------------|--------------|--------|--------------------------------|-----------------|---------------|-------------------|----------------------------------|------------------|--|
| МО | DEL | | RXYMQ3AV4A | RXYMQ4AV4A | RXYMQ5AV4A | RXYMQ6AV4A | RXYMQ8AY1 | RXYMQ9AY1 | |
| Power supply | | | | 1-phase, 230 | -240 V, 50 Hz | | 3-phase, 380 | -415 V, 50 Hz | |
| Cooling consoity | | Btu/h | 30,700 | 38,200 | 47,800 | 54,600 | 76,400 | 81,900 | |
| Cooling capacity | | kW | 9.0 | 11.2 | 14.0 | 16.0 | 22.4 | 24.0 | |
| Heating capacity | | Btu/h | 34,100 | 42,700 | 47,800 | 61,400 | 85,300 | 88,700 | |
| пеанну сарасну | | kW | 10.0 | 12.5 | 14.0 | 18.0 | 25.0 | 26.0 | |
| Power consumption | Cooling | kW | 2.44 | 2.88 | 3.93 | 4.14 | 5.94 | 6.88 | |
| rower consumption | Heating | T KVV | 2.28 | 2.60 | 3.04 | 4.07 | 6.25 | 6.82 | |
| Capacity control | | % | 24 to | 100 | 16 to | 100 | 20 to | 100 | |
| Casing colour | | | | | Ivory white | e (5Y7.5/1) | | | |
| Compressor | Туре | | Hermetically sealed swing type | | | | Hermetically se | aled scroll type | |
| Compressor | Motor output | kW | 1. | 92 | 3.0 | 3.5 | 3.8 | 4.8 | |
| Airflow rate | | l/s | | 1,267 | 1,767 | | 2,3 | 333 | |
| All llow rate | | m³/min | | 76 | | 106 | 14 | 40 | |
| Dimensions (H x W x D) | | mm | | 990 x 940 x 320 | | 1,345 x 900 x 320 | 1,430 x 9 | 940 x 320 | |
| Machine weight | | kg | 7 | 1 | 82 | 104 | 13 | 38 | |
| Sound level (Cooling/Heating | g) | dB(A) | 51/52 | 52/54 | 53/54 | 55/56 | 57/58 | 58/59 | |
| Sound power | | dB(A) | 69 | 70 | 71 | 73 | 75 | 76 | |
| Operation range | Cooling | °CDB | | | -5 to | o 46 | | | |
| Operation range | Heating | °CWB | | | -20 to | o 15.5 | | | |
| Refrigerant | Туре | | | | R-4 | 10A | | | |
| nongerant | Charge | kg | 2 | .9 | 3.4 | 3.6 | 5. | .8 | |
| Piping connections | Liquid | mm | | φ 9.5 | (Flare) | | φ 9.5 (Brazing) | | |
| riping connections | Gas | mm | | φ 15.9 (Flare) | | φ 19.1 (Flare) | φ 19.1 (Brazing) φ 22.2 (Brazing | | |

- Note: Specifications are based on the following conditions;

 Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.

 - Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
 Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.
 During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.
 - When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.
 - Refrigerant charge is required.

Outdoor Unit Combinations

| | | | 0 | Total | capacity index of c | connectable indoor | units | |
|------------|------|-------|-------------------|-------|---------------------|--------------------|-------|--|
| Model | kW | Class | Capacity index | | Combina | ation (%) | | Maximum number of connectable indoor units |
| | | | | 50%*1 | 80%*2 | 100%⁺³ | 130% | |
| RXYMQ3AV4A | 9.0 | 3.5 | 80 | 40 | 64 | 80 | 104 | 5 |
| RXYMQ4AV4A | 11.2 | 4 | 100 | 50 | 80 | 100 | 130 | 6 |
| RXYMQ5AV4A | 14.0 | 5 | 125 | 62.5 | 100 | 125 | 162.5 | 8 |
| RXYMQ6AV4A | 16.0 | 6 | 150 | 75 | 120 | 150 | 195 | 9 |
| RXYMQ8AY1 | 22.4 | 8 | 200 | 100 | 160 | 200 | 260 | 13 |
| RXYMQ9AY1 | 24.0 | 9 | 215 | 107.5 | 172 | 215 | 280 | 14 |

Note: *1. When only VRV indoor units are connected, connection ratio must be 50% to 130%.

■ VRV III S Series Outdoor Units Heat Pump RXYMQ-P

| | | | 0 | | | | | | | | |
|-------------------------------|--------------|--------|---------------------------------|--|--|--|--|--|--|--|--|
| MODEL | | | RXYMQ5PV4A | | | | | | | | |
| Power supply | | | 1-phase, 230-240 V, 50 Hz | | | | | | | | |
| Cooling capacity | | Btu/h | 47,800 | | | | | | | | |
| | | kW | 14.0 | | | | | | | | |
| | | Btu/h | 54,600 | | | | | | | | |
| Heating capacity | | kW | 16.0 | | | | | | | | |
| Power consumption | Cooling | kW | 3.97 | | | | | | | | |
| | Heating | KVV | 4.09 | | | | | | | | |
| Capacity control | | % | 24 to 100 | | | | | | | | |
| Casing colour | | | Ivory white (5Y7.5/1) | | | | | | | | |
| Compressor | Туре | | Hermetically sealed scroll type | | | | | | | | |
| Compressor | Motor output | kW | 3.0 | | | | | | | | |
| Airflow rate | flaur vota | | 1,767 | | | | | | | | |
| Alfilow rate | | m³/min | 106 | | | | | | | | |
| Dimensions (H x W x D) | | mm | 1,345 x 900 x 320 | | | | | | | | |
| Machine weight | | kg | 125 | | | | | | | | |
| Sound level (Cooling/Heating) | | dB(A) | 51/53 | | | | | | | | |
| Sound power | | dB(A) | 69 | | | | | | | | |
| Operation range | Cooling | °CDB | -5 to 46 | | | | | | | | |
| | Heating | °CWB | -20 to 15.5 | | | | | | | | |
| Refrigerant | Туре | | R-410A | | | | | | | | |
| | Charge | kg | 4.0 | | | | | | | | |
| Piping connections | Liquid | mm | φ 9.5 (Flare) | | | | | | | | |
| | Gas | | φ 15.9 (Flare) | | | | | | | | |

- Note: Specifications are based on the following conditions;

 Cooling: Indoor temp.: 27°CDB, 19.5°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.

 Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.

 Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.
 - - During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.
 - When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

Please refer to the VRV III S series brochure and Engineering Data Book for more information.

^{*2.} When a mixed combination of *VRV* and residential indoor units is connected or when only residential indoor units are connected, connection ratio must be 80% to 130%.
*3. When outdoor-air processing unit is connected, connection ratio must be 50% to 100%. A mixed combination of the outdoor-air processing unit and standard indoor unit in one

VRV IV Q SERIES Heat Pump

VIV Q SERIES For Quick & High



Reusing existing piping for speedy replacement to an advanced energy-saving air conditioning system

Upgrading air conditioning systems in the past used to require replacement of refrigerant piping in buildings, leading to major construction and costs exceeding those of the original installation.

To save time and cost, Daikin developed the VRV IV Q Series as a model specializing in system replacement. This revolutionary system reuses existing piping and enables quick and high quality replacement to the latest energy-saving air conditioning system without renovation work for new piping.

The JAJ IV Q series concept

Reusing existing refrigerant piping minimizes:

- Piping removal and new construction along with installation time and cost
- Impact to the interior and exterior of buildings
- Suspension of daily business operations for renovation

Improvement in capacity and greater number of indoor units with the VRV IV Q Series

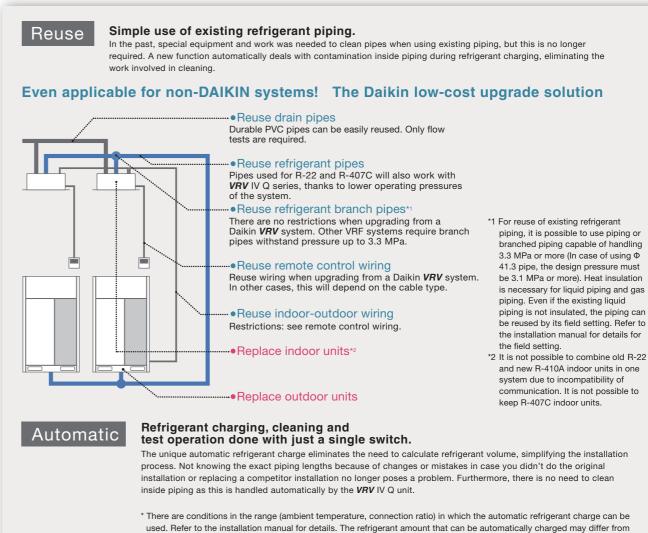
- Increase in capacity is possible while using existing piping.
- More indoor units can be connected in a single system. enabling consolidation of existing piping.

An automatic refrigerant charge function enables high quality installation for the VRV IV Q Series.

- The system is automatically charged with the proper amount of refrigerant even when the length of the existing piping is unknown.
- Equipment automatically performs a sequence of tasks from refrigerant charging to test operation.

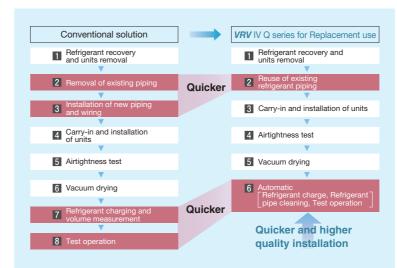
Quality Replacement Use VAV IV Q SERIES

Quick, Quality and Economical



Time saving

Enables smooth replacement of air conditioning with less effect on operations and users in the building.



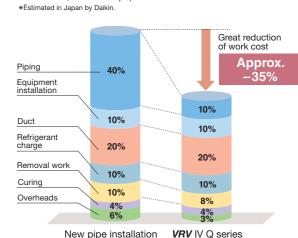
Cost saving

the additional refrigerant amount that is provided from calculations, but there are no problems in performance and quality.

Work costs for pipe removal, installation and insulation account for much of the total cost.

By the reuse of existing piping, 35% of cost down can be realized compared to installing new pipes.

■ Cost details (10 class example) *Estimated in Japan by Daikin.



Benefits of System Replacement



Design flexibility

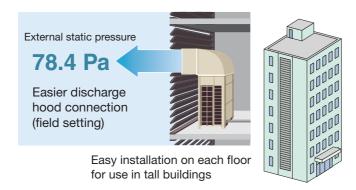
Significantly more compact outdoor unit enables the effective use of limited space!

Compact design enables the effective use of space taken up by existing machinery



High external static pressure 78.4 Pa





Small and light, significantly reducing constraints during carry-in







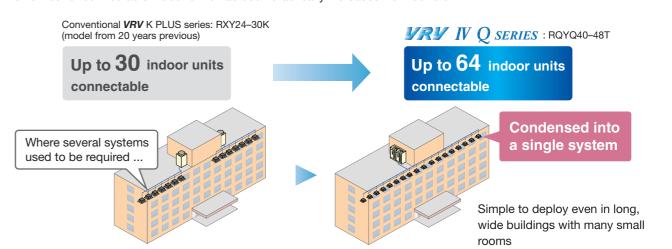
Can be carried on a cart Can be transported easily by elevator

System flexibility

An increased number of connectable indoor units in a single system

More indoor units can be connected in a single system, enabling consolidation of existing piping!

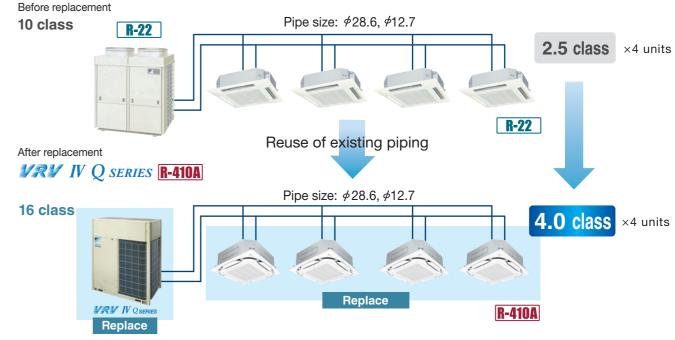
The number of connectable indoor units has been drastically increased from 30 to 64.



Enables increased capacity

System can be upgraded using existing piping

VRV IV Q series for replacement use enables the system capacity to be increased without changing the refrigerant piping. For example, it is possible to install a 16 class VRV IV Q series using the refrigerant piping of an 10 class R-22 system.



^{*} For reuse of existing refrigerant piping, it is possible to use piping or branched piping capable of handling 3.3 MPa or more (In case of using 041.3 pipe, the design pressure must be 3.1 MPa or more). Heat insulation is necessary for liquid piping and gas piping. Even if the existing liquid piping is not insulated, the piping can be reused by its field setting. Refer to the installation manual for details for the field setting.

Refrigerant

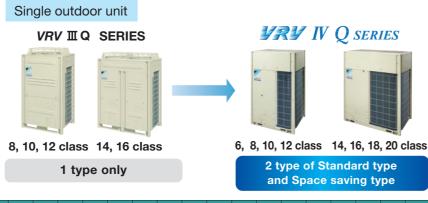
Temperature

VRV IV Q SERIES Heat Pump

Enhanced lineup

2 types up to 48 class

With its enhanced lineup of 2 types and Standard and Space saving types, VRV IV Q series outdoor units offer a high capacity up to 48 class to meet an ever wider variety of needs.



Lineup

| class | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 |
|-------------------|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Standard Type | | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | • |
| Space Saving Type | | | | | | | • | • | | | | | • | • | • | • | • | • | • | • | • | • |

Compact & light weight design

New Space Saving type with refined design

As a leading global innovator, Daikin advanced from the conventional 2 module combination to a single module for 18 and 20 class models. This allows the installation area to reduce by 33% as compared to the previous models.



Energy saving

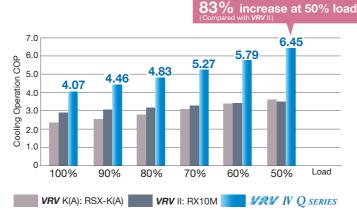
Higher Coefficient of Performance (COP)

COP at 100% operation load VRV IV Q series delivers highly efficient performance, contributing to high energy savings.



COP for 10 class

Improved efficiency during long operation under low load



*Cooling operation conditions: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB

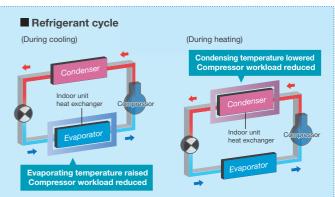
State-of-the-art energy saving technology for VRV system

Customise your VRV system for optimal annual efficiency

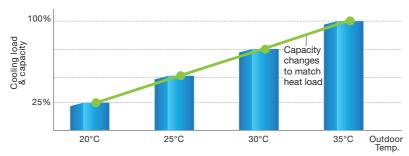
The new VRV IV Q series now features VRT technology. VRT automatically adjusts refrigerant temperature to individual building and climate requirement, thus further improving annual energy efficiency and maintaining comfort. With this excellent technology, running costs are reduced.

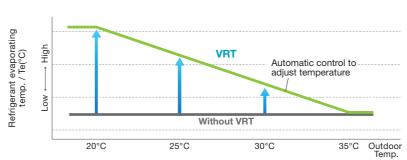
How is energy reduced?

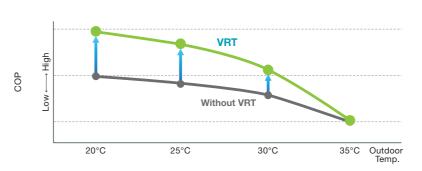
During cooling, the refrigerant evaporating temperature (Te) is raised to minimise the difference with the condensing temperature. During heating, condensing temperature (Tc) is lowered to minimise the difference to the evaporating temperature. Compressors work less, and this reduces power consumption.



■ Typical changes in evaporating temperature and COP depending on changing indoor load







Required capacity changes as air conditioning load changes according to outdoor temperature.

In case of fixed evaporating temperature, excessive cooling, thermo on-off loss, and other inefficiencies occur.

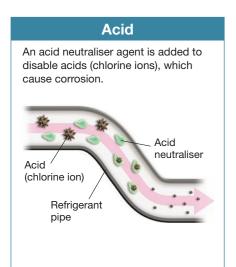
Automatic control adjusts evaporating temperature to heat load change.

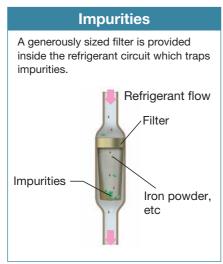
Energy efficiency is improved without sacrificing comfort.

New technology that enables use of existing piping

New tested contamination collection method

A new method collects contamination from existing piping, eliminating compressors and electric valves malfunction.

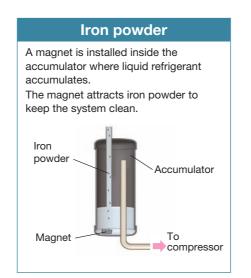




ODM

VRV IV Q series

Only



Outer Rotor DC Motor (ODM)

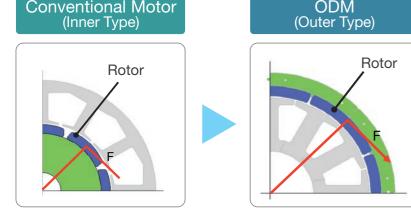
Only Daikin adapted ODM with feature ofstable rotation and volumetric efficiency

Advantages of ODM

Thanks to large diameter of the rotor,

- 1) Large torque with same electromagnetic force
- 2 Stable rotation in all range, and can be perated with small number of rotations





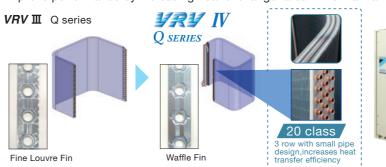


HIGH TORQUE MORE

Excellent Performance

Highly integrated heat exchanger

Improve performance by increasing heat exchanger area while maintaining the same installation space.



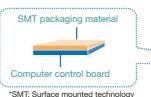
Realise highly integrated heat exchanger performance (increase row, reduce fin pitch) by reducing of airflow resistance which changes cooling tube to Ø7.

Change fin shape from fine louvre to waffle fin. Fin pitch can be reduced fin pitch from 2.0 mm to 1.4 mm, to realise unit efficiency whichincreased heat exchanger area.

Advanced control main PC board

SMT* packaging technology

- SMT packaging technology adopted by the whole computer control panel improves the anti-clutter performance.
- Protects your computer boards from the adverse effect of sandy and humid weather.



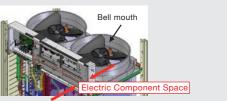
surface adopting SMT packaging technology

Computer control board

Refrigerant cooling technology, ensures stability of PCB temperature

Improved inner design to increase smooth airflow

Downsize electric component, re-locate to dead space of bell mouth side to decrease airflow resistance.







PC Board Refrigerant Using refrigerant to cool the inverter power module helped minimize the electric component, and this resulted in reduced airflow resistance and improved efficiency of the heat exchange

oof terrace temperature in summer is over 40°C seriously affecting inverter cooling efficiency, resulting in decline of inverter operating speed Finally device parts response speed is reduced

Control board failure ratio at stable operation is reduced

Improve reliability at high ambient temperature

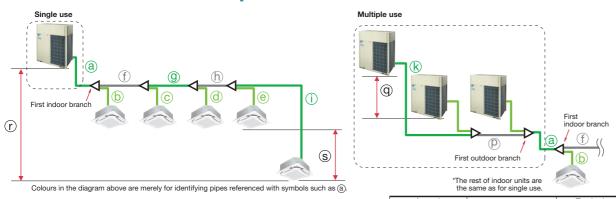
It is possible to cool the inverter power module stability even at high ambient temperature. This helps to keep air-conditioning capacity and also reduces failure ratio.

Guidelines for Reuse of Existing Refrig erant Piping



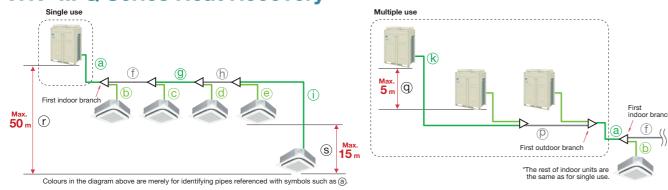
Piping limits for reuse of existing piping

VRV IV Q Series Heat Pump



| | | | Actual piping length | Exan | nple | piping length |
|-------------------------------|-----------------------------------|-------------------------------|----------------------|----------|-----------|---------------|
| | Refrigerant piping length | | 150 m | a+f+g | g+h+i | 175 m |
| Maximum allowable | Total piping length | | 300 m | a+b+c+d+ | e+f+g+h+i | _ |
| piping length | Between the first indoor branch a | nd the farthest indoor unit | 40 m | f+g+ | -h+i | _ |
| | Between the outdoor branch and | the last outdoor unit | 10 m | k+ | -р | 13 m |
| | | | Level Differ | rence | | Example |
| | Between the outdoor units (Multip | ole use) | 5 m | | | q |
| Maximum | Between the indoor units | | 15 m | | | S |
| allowable level difference | Between the outdoor units | If the outdoor unit is above. | 50 m | | | r |
| | and the indoor units | If the outdoor unit is below. | 40 m | | | r |

VRV III Q Series Heat Recovery



| | | | Actual piping length | Example | Equivalent piping length |
|---------------|-----------------------------------|------------------------------|----------------------|-------------------|--------------------------|
| | Refrigerant piping length | RQYQ8-48P | 150 m | a.f. a. b.: | 175 m |
| Maximum | | RQYQ140P, RQCEQ-P | 120 m | atitytiiti | 150 m |
| allowable | Total piping length | | | a+b+c+d+e+f+g+h+i | |
| piping length | Between the first indoor branch a | and the farthest indoor unit | 40 m | f+g+h+i | _ |
| | Between the outdoor branch and | | 10 m | k+p | 13 m |
| | | | , | | |

| | | | Level Difference | Example |
|----------------------|-------------------------------------|-------------------------------|------------------|---------|
| | Between the outdoor units (Multiple | , | 5 m | q |
| Maximum allowable | Between the indoor units | | 15 m | s |
| level difference | Between the outdoor units | If the outdoor unit is above. | 50 m | r |
| | and the indoor units | If the outdoor unit is below. | 40 m | r |

Reusability of existing piping

VRV IV Q Series Heat Pump

| | | | | | | | | - 1 | Piping size | Э | | | | | | |
|------------------------------|---------------|------|-----------------------|-------|---------------|---------------|-------|-------|----------------|---------------|---------------|-------------|-------------|-------------|-------|---------|
| Type of piping | Capacity | | | Liq | uid | | | | | | | Gas | | | | |
| | | φ6.4 | \$\overline{\phi} 9.5 | φ12.7 | <i>ф</i> 15.9 | <i>ф</i> 19.1 | φ22.2 | φ12.7 | \$ 15.9 | <i>ф</i> 19.1 | <i>φ</i> 22.2 | \$\phi_25.4 | \$\phi_28.6 | \$\phi 34.9 | φ41.3 | \$ 54.1 |
| | 6 class | Х | so | | | Х | X | Х | х | so | • | | | X | X | × |
| | 8 class | Х | S O | • | | Х | X | Х | Х | SO | | • | • | Х | X | × |
| | 10 class | X | so | | | х | X | Х | Х | x | SO | | • | Х | X | × |
| | 12 class | X | х | so | • | х | X | Х | X | × | × | X | SO | • | х | × |
| | 14 class | X | X | so | • | Х | X | Х | X | x | × | X | SO | • | X | × |
| | 16 class | X | × | so | | × | × | X | X | × | × | × | SO | • | X | × |
| | 18 class | X | х | X | so | • | Х | Х | Х | х | X | Х | so | • | Х | × |
| | 20 class | X | X | X | SO | • | Х | Х | х | × | × | X | SO | • | Х | × |
| | 22 class | X | × | × | so | | X | × | X | × | × | × | so | • | X | × |
| | 24 class | X | X | X | so | • | Х | Х | Х | x | X | Х | Х | SO | | X |
| Main piping | 26 class | X | × | × | X | SO | • | Х | Х | x | × | X | X | so | • | × |
| g | 28 class | Х | х | X | X | so | • | Х | Х | × | × | X | Х | so | • | × |
| | 30 class | X | х | X | × | so | • | Х | Х | х | × | X | Х | so | • | Х |
| | 32 class | Х | х | X | X | so | • | Х | Х | x | X | X | Х | so | • | × |
| | 34 class | X | × | × | × | so | • | Х | Х | x | × | × | X | so | • | Х |
| | 36 class | Х | х | × | × | so | • | Х | х | × | × | × | х | X | SO | |
| | 38 class | Х | X | X | Х | so | • | Х | х | х | X | X | Х | х | SO | • |
| | 40 class | Х | X | X | х | so | • | Х | Х | х | X | X | Х | Х | so | • |
| | 42 class | Х | × | X | × | so | • | X | × | × | × | × | X | × | so | • |
| | 44 class | X | Х | X | х | so | • | Х | х | × | × | X | Х | × | SO | • |
| | 46 class | X | x | X | Х | so | • | Х | х | x | × | X | х | × | so | • |
| | 48 class | X | x | X | X | so | • | Х | х | × | × | X | х | × | so | • |
| | < 100 | X | soo | | Х | Х | х | Х | SO | | х | X | Х | × | X | × |
| | 100 ≤ X < 150 | X | soo | | X | X | × | Х | S O | • | Х | × | × | × | × | × |
| | 150 ≤ X < 160 | X | soe | | Х | х | X | Х | х | soo | | | х | × | × | × |
| | 160 ≤ X < 200 | X | so | • | Х | х | X | Х | х | S O | | • | х | × | X | × |
| From | 200 ≤ X < 290 | X | so | • | | Х | X | Х | х | × | S O | • | | × | × | × |
| REFNET | 290 ≤ X < 330 | X | X | soo | | × | × | Х | × | × | × | • | so | | × | × |
| to REFNET | 330 ≤ X < 420 | X | × | SO | • | x | × | Х | х | × | × | × | so | • | х | × |
| O . ILI IVE | 420 ≤ X < 480 | X | x | Х | soo | | х | Х | х | x | × | х | so | • | х | × |
| | 480 ≤ X < 640 | × | × | × | SO | • | × | × | × | × | × | × | SO | • | × | × |
| | 640 ≤ X < 900 | Х | × | × | X | SO | | х | х | × | × | × | Х | so | • | |
| | 900 ≤ X < 920 | X | x | × | × | so | • | Х | х | х | × | х | х | so | | • |
| | 920 ≤ | X | × | × | × | so | • | х | × | × | × | × | × | × | so | • |
| | 20-40 class | SO | | Х | × | Х | х | S | | × | × | × | х | × | × | × |
| | 50 class | S O | • | Х | × | х | × | so | • | × | × | × | х | × | × | × |
| | 63-80 class | × | soo | | × | × | × | Х | soo | | × | × | X | × | × | × |
| rom | 100-125 class | X | soe | | × | × | × | × | SO | • | | | × | × | × | × |
| REFNET | 140-145 class | X | so | | X | × | × | × | SO | | | | X | × | × | × |
| to indoor unit ^{*2} | 180 class | X | so | | X | × | × | × | X | s O | | | × | × | × | × |
| | 200 class | × | so | • | X | × | × | × | X | so | | • | | X | × | × |
| - | 250 class | X | so | | X | X | X | × | X | × | so | | | X | X | × |

- : Piping size of conventional R-22, R-407C model : Possible
- : Piping size of conventional R-410A model S : Standard piping size of *VRV* IV Q series S : Standard piping size of *VRV* IV Q series
- Standard piping size of VRV IV Q series. However, when equivalent piping length between outdoor unit and indoor unit is 90 m or more, size of main piping must be increased.
 - × : Not possible
- *1 Piping between REFNETs depends on total capacity index of indoor units connected below each REFNET. It cannot exceed piping size of upstream side.
 *2 Piping from REFNET to indoor unit depends on the capacity of the connected indoor unit. It cannot exceed piping size of upstream side.

VRV III Q Series Heat Recovery

| | | | | | | | | | | | Pi | ping siz | е | | | | | | | | | | |
|-----------------------------|---------------|------|---------------|-------------------|-------------------|----------------|-------|-------------------|----------------|--------|---------|----------|--------|---------------|--------|---------------|--------|-------------------|----------------|--------|-----------------|---------------|----------|
| Type of piping | class | | | Lic | uid | | | | | | Suction | n gas | | | | | | High | and low | pressu | re gas | | |
| | | φ6.4 | \$ 9.5 | φ _{12.7} | φ _{15.9} | \$ 19.1 | φ22.2 | φ _{12.7} | \$ 15.9 | φ 19.1 | φ22.2 | φ25.4 | φ 28.6 | \$\phi\$ 34.9 | φ 41.3 | \$ 9.5 | \$12.7 | φ _{15.9} | \$ 19.1 | φ22.2 | \$\phi_{25.4}\$ | \$\phi_28.6\$ | ϕ_3 |
| | 10 class | × | so | • | × | × | × | × | × | × | SO | | • | × | × | × | × | × | SO | | × | × | Т |
| | 13 class | × | × | S | | × | × | × | × | × | × | S | | × | × | × | × | × | S | | × | × | |
| | 16 class | × | × | so | • | | × | × | × | × | × | × | so | • | × | × | × | × | × | so | • | × | Т |
| | 18 class | × | × | × | so | • | × | × | × | × | × | × | so | • | × | × | × | × | × | so | • | × | П |
| Main piping | 20 class | × | × | × | so | • | × | × | × | × | × | × | so | • | × | × | × | × | × | S | • | 0 | |
| iviairi pipirig | 22 class | × | × | × | so | | × | × | × | × | × | × | so | | × | × | × | × | × | × | S | 0 | |
| | 24 class | × | × | × | so | • | × | × | × | × | × | × | S | 0 | × | × | × | × | × | × | S | 0 | |
| | 26 class | × | × | × | × | so | • | × | × | × | × | × | × | SO | | × | × | × | × | × | S | 0 | |
| | 28 class | × | × | × | × | so | • | × | × | × | × | × | × | so | • | × | × | × | × | × | × | so | × |
| | 30 class | × | × | × | × | so | • | × | × | × | × | × | × | so | • | × | × | × | × | × | × | so | × |
| | < 50 | S | 0 | × | × | × | × | S | 0 | × | × | × | × | × | × | S | 0 | × | × | × | × | × | |
| | 50 ≤ X < 100 | × | so• | | × | × | × | × | SO | | × | × | × | × | × | × | soe | | × | × | × | × | Т |
| | 100 ≤ X < 150 | × | SO | | × | × | × | × | so | • | | | × | × | × | × | SO | • | × | × | × | × | |
| | 150 ≤ X < 160 | × | so | | × | × | × | × | × | SO | | | × | × | × | × | × | so• | | × | × | × | |
| | 160 ≤ X < 200 | × | SO | • | × | × | × | × | × | SO | | • | × | × | × | × | × | so | • | × | × | × | |
| From | 200 ≤ X < 290 | × | SO | • | | × | × | × | × | × | so | | | × | × | × | × | × | S○● | | × | × | |
| REFNET | 290 ≤ X < 330 | × | × | s O • | | × | × | × | × | × | × | S | 0 | × | × | × | × | × | S○● | | × | × | |
| to REFNET 1 | 330 ≤ X < 420 | × | × | SO | | × | × | × | × | × | × | × | so | × | × | × | × | × | so | | • | × | |
| | 420 ≤ X < 480 | × | × | × | SO | | × | × | × | × | × | × | so | • | × | × | × | × | × | × | S | 0 | |
| | 480 ≤ X < 640 | × | × | × | SO | • | × | × | × | × | × | × | so | • | × | × | × | × | × | × | S | 0 | |
| | 640 ≤ X < 700 | × | × | × | × | SO• | | × | × | × | × | × | × | so | | × | × | × | × | × | S | 0 | |
| | 700 ≤ X < 900 | × | × | × | × | SO | | × | × | × | × | × | × | SO | | × | × | × | × | × | S | 0 | × |
| | 900 ≤ | × | × | × | × | SO | | × | × | × | × | × | × | S | 0 | × | × | × | × | × | × | so | × |
| | 20-40 class | so• | | × | × | × | × | s O • | | × | × | × | × | × | × | | | | | | | | |
| | 50 class | SO | • | × | × | × | × | SO | • | × | × | × | × | × | × | 1 | | | | | | | |
| _ | 63 class | × | SO | | × | × | × | | so• | | × | × | × | × | × | l | | | | | | | |
| From | 80 class | × | SO | | × | × | × | × | S○● | | × | × | × | × | × | 1 | | | | | | | |
| BS | 100-125 class | × | so | | × | × | × | × | so | • | | | × | × | × |] | | | | | | | |
| to indoor unit ² | 140-145 class | × | so | | × | × | × | × | so | | | | × | × | × | l | | | | | | | |
| | 180 class | × | so | | × | × | × | × | × | so | | | × | × | × | l | | / | | | | | |
| | 200 class | × | so | • | | × | × | × | × | SO | | • | | × | × | 1. | / | | | | | | |
| | 250 class | × | SO | | | × | × | × | × | × | SO | | | × | × | 1/ | | | | | | | |

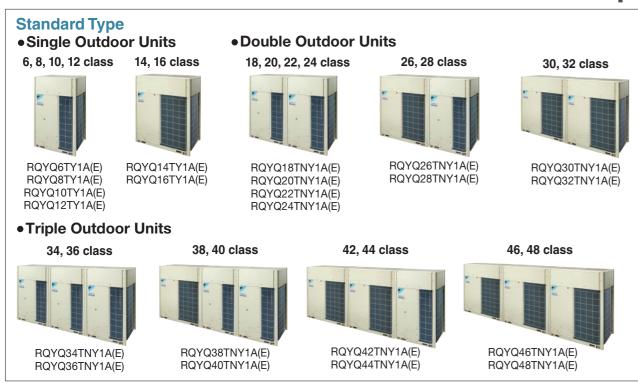
- : Piping size of conventional R-22, R-407C model : Possible
- Fiping size of conventional R-410A model
 S : Standard piping size of VRV III Q. However, when equivalent piping length between soutdoor unit and indoor unit is 90 m or more, size of main piping must be increased.
- S: Standard piping size of VRV III Q series outdoor unit and indoor unit is 90 m or more, size of main piping must be increased.

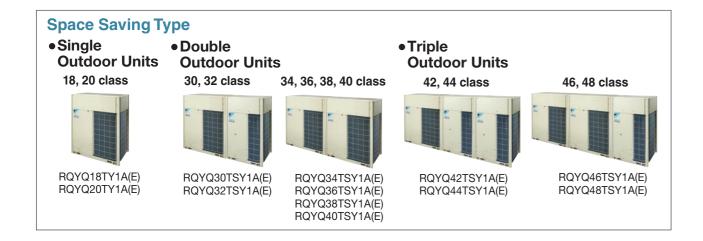
 *1 Piping between REFNETs depends on total capacity index of indoor units connected below each REFNET. It cannot exceed piping size of upstream side.
- *2 Piping from BS to indoor unit depends on total capacity index of indoor unit. It cannot exceed piping size of upstream side.

RV IV Q SERIES Heat Pump

System lineup for replacement use

■ VRV IV Q Series Outdoor Units Heat Pump





Lineup

| class | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 |
|-------------------|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Standard Type | | • | | • | | | | • | • | • | | | • | | | | | | • | • | • | |
| Space Saving Type | | | | | | | | | | | | | • | | | | | | • | • | • | |

Outdoor Unit Combinations

Standard Type

| class | kW | Capacity index | Model name | Combination | Outdoor unit multi connection piping kit*1 | Total capacity index of connectable indoor units*3 | Maximum number of connectable indoor units*2 |
|-------|------|----------------|------------|-----------------------------|--|--|--|
| 6 | 16.0 | 150 | RQYQ6T | RQYQ6T | _ | 75 to 195 | 9 |
| 8 | 22.4 | 200 | RQYQ8T | RQYQ8T | _ | 100 to 260 | 13 |
| 10 | 28.0 | 250 | RQYQ10T | RQYQ10T | _ | 125 to 325 | 16 |
| 12 | 33.5 | 300 | RQYQ12T | RQYQ12T | _ | 150 to 390 | 19 |
| 14 | 40.0 | 350 | RQYQ14T | RQYQ14T | _ | 175 to 455 | 22 |
| 16 | 45.0 | 400 | RQYQ16T | RQYQ16T | _ | 200 to 520 | 26 |
| 18 | 50.4 | 450 | RQYQ18TN | RQYQ8T + RQYQ10T | | 225 to 585 | 29 |
| 20 | 55.9 | 500 | RQYQ20TN | RQYQ8T + RQYQ12T | | 250 to 650 | 32 |
| 22 | 61.5 | 550 | RQYQ22TN | RQYQ10T + RQYQ12T | | 275 to 715 | 35 |
| 24 | 67.0 | 600 | RQYQ24TN | RQYQ12T × 2 | DUEDOOD100 | 300 to 780 | 39 |
| 26 | 73.5 | 650 | RQYQ26TN | RQYQ12T + RQYQ14T | BHFP22P100 | 325 to 845 | 42 |
| 28 | 78.5 | 700 | RQYQ28TN | RQYQ12T + RQYQ16T | | 350 to 910 | 45 |
| 30 | 85.0 | 750 | RQYQ30TN | RQYQ14T + RQYQ16T | | 375 to 975 | 48 |
| 32 | 90.0 | 800 | RQYQ32TN | RQYQ14T + RQYQ18T | | 400 to 1,040 | 52 |
| 34 | 95.0 | 850 | RQYQ34TN | RQYQ10T + RQYQ12T × 2 | | 425 to 1,105 | 55 |
| 36 | 101 | 900 | RQYQ36TN | RQYQ12T × 3 | | 450 to 1,170 | 58 |
| 38 | 106 | 950 | RQYQ38TN | RQYQ8T + RQYQ12T + RQYQ18T | | 475 to 1,235 | 61 |
| 40 | 112 | 1,000 | RQYQ40TN | RQYQ12T × 2 + RQYQ16T | DUEDOOD454 | 500 to 1,300 | |
| 42 | 119 | 1,050 | RQYQ42TN | RQYQ12T + RQYQ14T + RQYQ16T | BHFP22P151 | 525 to 1,365 | |
| 44 | 124 | 1,100 | RQYQ44TN | RQYQ12T + RQYQ16T × 2 | | 550 to 1,430 | 64 |
| 46 | 130 | 1,150 | RQYQ46TN | RQYQ14T × 2 + RQYQ18T | | 575 to 1,495 | |
| 48 | 135 | 1,200 | RQYQ48TN | RQYQ14T + RQYQ16T + RQYQ18T | | 600 to 1,560 | |

Note: *1 For multiple connection of 18 class systems and above, the outdoor unit multi connection piping kit (separately sold) is required.

*2 Total capacity index of connectable indoor units must be 50%-130% of the capacity index of the outdoor units.

*3 When outdoor-air processing units and standard indoor units are connected, the total connection capacity index of the outdoor-air processing units must not exceed 30% of the capacity index of the outdoor units. And the connection ratio must not exceed 100%.

Space Saving Type

| class | kW | Capacity index | Model name | Combination | Outdoor unit multi connection piping kit*1 | Total capacity index of connectable indoor units*3 | Maximum number of connectable indoor units*2 |
|-------|------|----------------|------------|-----------------------------|--|--|--|
| 18 | 50.0 | 450 | RQYQ18T | RQYQ18T | _ | 225 to 585 | 29 |
| 20 | 56.0 | 500 | RQYQ20T | RQYQ20T | _ | 250 to 650 | 32 |
| 30 | 83.5 | 750 | RQYQ30TS | RQYQ12T + RQYQ18T | | 375 to 975 | 48 |
| 32 | 89.5 | 800 | RQYQ32TS | RQYQ12T + RQYQ20T | | 400 to 1,040 | 52 |
| 34 | 95.0 | 850 | RQYQ34TS | RQYQ16T + RQYQ18T | BHFP22P100 | 425 to 1,105 | 55 |
| 36 | 100 | 900 | RQYQ36TS | RQYQ18T x 2 | BHFF22F100 | 450 to 1,170 | 58 |
| 38 | 106 | 950 | RQYQ38TS | RQYQ18T + RQYQ20T | | 475 to 1,235 | 61 |
| 40 | 112 | 1,000 | RQYQ40TS | RQYQ20T x 2 | | 500 to 1,300 | |
| 42 | 117 | 1,050 | RQYQ42TS | RQYQ12T x 2 + RQYQ18T | | 525 to 1,365 | |
| 44 | 123 | 1,100 | RQYQ44TS | RQYQ12T x 2 + RQYQ20T | BHFP22P151 | 550 to 1,430 | 64 |
| 46 | 129 | 1,150 | RQYQ46TS | RQYQ12T + RQYQ16T + RQYQ18T | DI 11 22F 131 | 575 to 1,495 | |
| 48 | 134 | 1,200 | RQYQ48TS | RQYQ12T + RQYQ18T x 2 |] | 600 to 1,560 | |

Note: *1 For multiple connection of 30 class and above the outdoor unit multi connection piping kit (separately sold) is required.

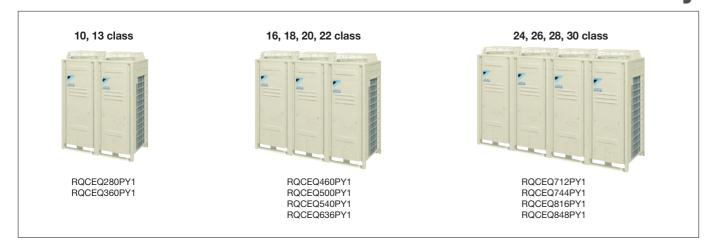
*2 Total capacity index of connectable indoor units must be 50%-130% of the capacity index of the outdoor units.

*3 When outdoor-air processing units and standard indoor units are connected, the total connection capacity index of the outdoor-air processing units must not exceed 30% of the capacity index of the outdoor units. And the connection ratio must not exceed 100%.



System lineup for replacement use

■ VRV III Q Series Outdoor Units Heat Recovery



Outdoor Unit Combinations

| | | | | | | Total o | capacity in | dex of | |
|-------|-------|----------|--------------|---|-------------------------|---------|-------------|--------|--------------------------|
| .1 | 1.347 | Capacity | Mandalasassa | 0 | Outdoor unit multi | | ble indoor | | Maximum number of |
| class | kW | index | Model name | Combination | connection piping kit*1 | Con | nbination | (%) | connectable indoor units |
| | | | | | | 50% | 100% | 130% | |
| 10 | 28.0 | 250 | RQCEQ280P | RQEQ140P+RQEQ140P | BHFP26P36C | 125 | 250 | 325 | 16 |
| 13 | 36.0 | 325 | RQCEQ360P | RQEQ180P+RQEQ180P | BHFF20F30C | 162.5 | 325 | 422.5 | 21 |
| 16 | 46.0 | 400 | RQCEQ460P | RQEQ140P+RQEQ140P +RQEQ180P | | 200 | 400 | 520 | 26 |
| 18 | 50.0 | 450 | RQCEQ500P | RQEQ140P+RQEQ180P +RQEQ180P | BHFP26P63C | 225 | 450 | 585 | 29 |
| 20 | 54.0 | 500 | RQCEQ540P | RQEQ180P+RQEQ180P +RQEQ180P | Bill F20F03C | 250 | 500 | 650 | 32 |
| 22 | 63.6 | 550 | RQCEQ636P | RQEQ212P+RQEQ212P +RQEQ212P | | 275 | 550 | 715 | 35 |
| 24 | 71.2 | 600 | RQCEQ712P | RQEQ140P+RQEQ180P +RQEQ180P+RQEQ212P | | 300 | 600 | 780 | 39 |
| 26 | 74.4 | 650 | RQCEQ744P | RQEQ140P+RQEQ180P +RQEQ212P+RQEQ212P | 0P 2P BHFP26P84C | 325 | 650 | 845 | 42 |
| 28 | 81.6 | 700 | RQCEQ816P | RQEQ180P+RQEQ212P +RQEQ212P+RQEQ212P | | 350 | 700 | 910 | 45 |
| 30 | 84.8 | 750 | RQCEQ848P | RQEQ212P+RQEQ212P +RQEQ212P+RQEQ212P | 2P | | 750 | 975 | 48 |

- *1 The outdoor unit multi connection piping kit (separately sold) is required for multiple connections.
- *2 Total capacity index of connectable indoor units must be 50%–130% of the capacity index of the outdoor units.
- *3 For indoor units used for cooling only (do not connect to BS unit when using for heat recovery), total capacity index must be 50% or less than the capacity index of the outdoor units.
- *4 When outdoor-air processing units and standard indoor units are connected, the total connection capacity index of the outdoor-air processing units must not exceed 30% of the capacity index of the outdoor units. And the connection ratio must not exceed 100%.

Variety of Indoor Unit

| New | line |
|-----|------|
| | |

| | | | | | | | | | | | | | | | | Ne | w line | up | |
|---|--------------|----------------------------|-----|-------|--------|-----|------|------|----------------------------|------|------|----------------------------|---|------|------|----------------------------|--------|-----|-----------------|
| | | | 20 | 25 | 32 | 40 | 50 | 63 | 71 | 80 | 100 | 125 | 140 | 145 | 160 | 180 | 200 | 250 | |
| Туре | Model Name | Capacity Range(kW) | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 8 | 9 | 11.2 | 14 | 16 | 16.2 | 18 | 20 | 22.4 | 28 | |
| | | Capacity Index | 20 | 25 | 31.25 | 40 | 50 | 62.5 | 71 | 80 | 100 | 125 | 140 | 145 | 160 | 180 | 200 | 250 | |
| Ceiling Mounted Cassette (Round Flow with Sensing) | FXFSQ-AVM | | | • | • | • | • | • | | • | • | • | • | | | | | | |
| Ceiling Mounted Cassette (Round Flow) | FXFQ-PVE | | | | • | • | • | • | | • | | | 1 | | | 1 | | | |
| Ceiling Mounted Cassette (Compact Multi Flow) | FXZQ-A2VEB | | • | • | | • | • | | 1 1 1 1 1 1 | | | 1 | | | | 1 1 1 1 1 | | | |
| 4-Way Flow Ceiling Suspended | FXUQ-AVEB | | | 1 | | | | | | | | 1 | | | | 1 1 1 1 1 1 | | | |
| Ceiling Mounted Cassette (Double Flow) | New FXCQ-AVM | | | • | | | • | | | | 1 | • | 1 | | | | | | |
| Ceiling Mounted Cassette (Single Flow) | FXEQ-AV36 | | • | • | | • | • | | ! ! ! | | | ! ! ! | | | | | | | E E |
| Slim Ceiling Mounted Duct (Compact Series) | FXDQ-TV1B(A) | | • | • | | • | • | • | | | | | 1 | | | | | | WRV VI O cepies |
| Slim Ceiling Mounted Duct | FXDQ-PDVE | (700mm width type) | | • | | | 1 | | | | 1 | | 1 | | | | | | VRVV |
| (Standard Series) | FXDQ-NDVE | (900 / 1,100mm width type) | | | | | • | | | | | | 1 | | | 1 1 1 1 1 | | | |
| Ceiling Concealed Duct | FXDYQ-MAV1 | | | 1 | | | 1 | | 1 1 1 1 1 | • | • | • | | | | | | | |
| Middle Static Pressure Ceiling Mounted Duct | FXSQ-PAVE | | • | • | | • | • | | | | • | • | • | | | | | | |
| Ceiling Mounted | FXMQ-PAVE | | • | • | • | • | • | • | ! ! ! ! | • | • | • | • | | | | | | |
| Duct | FXMQ-PV1A | | | | | | | | | | | 1 1 1 1 1 1 | | | • | | • | | |
| Outdoor-Air Processing Unit | FXMQ-MFV1 | | | 1 | | | 1 | | | | | | 1 | | | 1 | • | | |
| Ceiling Suspended | FXHQ-MAVE | | | 1 | | | | • | | | • | 1 1 1 1 1 1 | | | | | | | |
| Celling Suspended | New FXHQ-AVM | | | 1 | | | | | 1 1 1 1 1 1 | | | | • | | | 1 1 1 1 1 1 | | | |
| Wall Mounted | New FXAQ-AVM | | | | | | | | ! ! ! ! | | 1 | 1 | 1 | | | 1 1 1 1 1 1 | | | |
| Floor Standing | FXLQ-MAVE | | • | | | • | • | • | | | 1 | 1 | 1 | | | | | | |
| Concealed Floor Standing | FXNQ-MAVE | | • | | • | • | • | • | 1 | | 1 | 1 | | 1 | | | | | |
| Heat Reclaim Ventilator with DX-Coil and Humidifier | VKM-GA(M)V1 | | Ai | rflov | v rate | 500 | 0-10 | 00 m | ³ /h | | | | | | | | | | |
| Heat Reclaim Ventilator | VAM-GJVE | 00 | Ai | rflov | v rate | 150 | 0-20 | 00 m | ³ /h | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

^{*} It is not possible to combine old R-22 and new R-410A indoor units in one system due to incompatibility of communication. It is not possible to keep R-407C indoor units.

Specifications

VRV V Q SERIES Heat Pump

■ VRV IV Q Series Outdoor Units Heat Pump RQYQ-T

Standard Type

| | | | RQYQ6TY1A(E) | RQYQ8TY1A(E) | RQYQ10TY1A(E) | RQYQ12TY1A(E) | RQYQ14TY1A(E) | RQYQ16TY1A(E) | RQYQ18TNY1A(E) | RQYQ20TNY1A(E) | RQYQ22TNY1A(E) | RQYQ24TNY1A(E) | RQYQ26TNY1A(E) | RQYQ28TNY1A(E) | RQYQ30TNY1A(E) | RQYQ32TNY1A(E) | | | | |
|-----------------|-------------------------|----------|----------------|-----------------|----------------------|----------------------|------------------|-----------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------------|-------------------------------------|--|--|--|--|
| MODEL | Comb | oination | - | - | - | - | - | - | RQYQ8TY1A(E) RQYQ10TY1A(E) | RQYQ8TY1A(E) RQYQ12TY1A(E) | RQYQ10TY1A(E) RQYQ12TY1A(E) | RQYQ12TY1A(E) RQYQ12TY1A(E) | RQYQ12TY1A(E) RQYQ14TY1A(E) | RQYQ12TY1A(E) RQYQ16TY1A(E) | RQYQ14TY1A(E) RQYQ16TY1A(E) | RQYQ14TY1A(E) RQYQ18TY1A(E) | | | | |
| Power supply | | | | | 3-phase 4-wire syste | em, 380-415 V, 50 Hz | | | | • | • | 3-phase 4-wire syste | em, 380-415 V, 50 Hz | | | | | | | |
| Caaling aspesi | 4 | Btu/h | 54,600 | 76,400 | 95,500 | 114,000 | 136,000 | 154,000 | 172,000 | 191,000 | 210,000 | 229,000 | 251,000 | 268,000 | 290,000 | 307,000 | | | | |
| Cooling capaci | ty | kW | 16.0 | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 50.4 | 55.9 | 61.5 | 67.0 | 73.5 | 78.5 | 85.0 | 90.0 | | | | |
| Linatina annosi | | Btu/h | 61,400 | 85,300 | 107,000 | 128,000 | 154,000 | 171,000 | 193,000 | 213,000 | 235,000 | 256,000 | 281,000 | 299,000 | 324,000 | 345,000 | | | | |
| Heating capaci | ity | kW | 18.0 | 25.0 | 31.5 | 37.5 | 45.0 | 50.0 | 56.5 | 62.5 | 69.0 | 75.0 | 82.5 | 87.5 | 95.0 | 101 | | | | |
| | Cooling | kW | 3.63 | 5.21 | 7.29 | 9.01 | 10.9 | 13.0 | 12.5 | 14.2 | 16.3 | 18.0 | 19.9 | 22.0 | 23.9 | 26.3 | | | | |
| consumption | Heating | KVV | 3.99 5.69 7.29 | | 9.06 | 11.1 | 12.8 | 13.0 | 14.8 | 16.4 | 18.1 | 20.2 | 21.9 | 23.9 | 26.2 | | | | | |
| Capacity contro | ol | % | 20- | 100 | 16-100 | 15-100 | 11-100 | 10-100 | | 8- | 100 | | 6-1 | 100 | 5-100 | | | | | |
| Casing colour | | | | | Ivory white | e (5Y7.5/1) | | | | | | Ivory white | e (5Y7.5/1) | | | | | | | |
| | Туре | | | | Hermetically Se | aled Scroll Type | | | | | | Hermetically Se | aled Scroll Type | | | | | | | |
| Compressor | Motor output | t kW | 2.4X1 | 3.4X1 | 4.1X1 | 5.2X1 | (2.9X1)+(3.3X1) | (3.6X1)+(3.7X1) | (3.4X1)+(4.1X1) | (3.4X1)+(5.2X1) | (4.1X1)+(5.2X1) | (5.2X1)+(5.2X1) | (5.2X1)+(2.9X1)+ (3.3X1) | (5.2X1)+(3.6X1)+ (3.7X1) | (2.9X1)+(3.3X1)+ (3.6X1)+(3.7X1) | (2.9X1)+(3.3X1)+ (4.4X1)+(4.0X1) | | | | |
| Airflow rate | | ℓ/s | 1,983 | 2,616 | 2,749 | 2,966 | 3,8 | 383 | 2,616+2,749 | 2,616+2,966 | 2,749+2,966 | 2,966+2,966 | 2,966- | +3,883 | 3,883- | +3,883 | | | | |
| Alliowiate | | m³/min | 119 | 157 | 165 | 178 | 2 | 33 | 157+165 | 157+178 | 165+178 | 178+178 | 178- | | 233- | | | | | |
| Dimensions (H) | XWXD) | mm | | 1,657X | 930X765 | | 1,657X1 | ,240X765 | | (, , | +(1,657X930X765) | | (1,657X930X765)+ | (, , , | (1,657X1,240X765)- | () / | | | | |
| Machine weigh | it | kg | 18 | 85 | 1: | 95 | 2 | 85 | 185 | +195 | 195- | +195 | 195- | +285 | 285+285 | 285+300 | | | | |
| Sound level | | dB(A) | 55 | 56 | 57 | 59 | 60 | 61 | 60 | (| 31 | 62 | 6 | 3 | 6 | 54 | | | | |
| Sound power | | dB(A) | 75 | 76 | 78 | 79 | 80 | 83 | 80 | 81 | 8 | 32 | 83 | 84 | 8 | 15 | | | | |
| Operation | Cooling | °CDB | | | -5 t | o 49 | | | | | | -5 t | o 49 | | | | | | | |
| range | Heating | °CWB | | | -20 to | 15.5 | | | | | | -20 to | 15.5 | | | | | | | |
| Refrigerant | Туре | | | | R-4 | 10A | | | | | | R-4 | 10A | | | | | | | |
| Tionigorant | Charge kg 5.9 6.0 | | | 6.3 | 10.3 | 10.4 | 5.9+6.0 | 5.9+6.3 | 6.0+6.3 | 6.3+6.3 | 6.3+10.3 | 6.3+10.4 | 10.3+10.4 | 10.3+11.7 | | | | | | |
| Piping | Liquid | → mm ⊢ | | φ 9.5 (Brazing) | φ 12.7 (Brazing) | | | | | (Brazing) | | | | (Brazing) | | | | | | |
| connections | Gas | | φ 19.1 (| (Brazing) | φ 22.2 (Brazing) | | φ 28.6 (Brazing) | | | φ 28.6 (Brazing) | | | | | | | | | | |

| | | | RQYQ34TNY1A(E) | RQYQ36TNY1A(E) | RQYQ38TNY1A(E) | RQYQ40TNY1A(E) | RQYQ42TNY1A(E) | RQYQ44TNY1A(E) | | RQYQ46TNY1A(E) | RQYQ48TNY1A(E) | |
|---|--|-----------------------------|---|---|--|---|---|---|---|---|---|--|
| MODEL | | | RQYQ10TY1A(E) RQYQ12TY1A(E) RQYQ12TY1A(E) | RQYQ12TY1A(E) RQYQ12TY1A(E) RQYQ12TY1A(E) | RQYQ8TY1A(E) RQYQ12TY1A(E) RQYQ18TY1A(E) | RQYQ12TY1A(E) RQYQ12TY1A(E) RQYQ16TY1A(E) | RQYQ12TY1A(E) RQYQ14TY1A(E) RQYQ16TY1A(E) | RQYQ12TY1A(E) RQYQ16TY1A(E) RQYQ16TY1A(E) | | RQYQ14TY1A(E) RQYQ14TY1A(E) RQYQ18TY1A(E) | RQYQ14TY1A(E) RQYQ16TY1A(E) RQYQ18TY1A(E) | |
| Power supply | | | | | 3-phase 4-wire syste | em, 380-415 V, 50 Hz | | | | 3-phase 4-wire syste | m, 380-415 V, 50 Hz | |
| Cooling capac | rer supply ling capacity tring capacity Heating tring colour Type Motor output k m³/ consider tring capacity tring c | Btu/h | 324,000 | 345,000 | 362,000 | 382,000 | 406,000 | 423,000 | | 444,000 | 461,000 | |
| Cooling capac | пту | kW | 95.0 | 101 | 106 | 112 | 119 | 124 | | 130 | 135 | |
| Heating capac | power supply power supply poling capacity power Cooling Heating Apacity control Asing colour Type mensions (HXWXD) possible for the supple | Btu/h | 365,000 | 386,000 | 406,000 | 427,000 | 454,000 | 471,000 | | 498,000 | 515,000 | |
| пеанну сарас | ну | kW | 107 | 113 | 119 | 125 | 133 | 138 | | 146 | 151 | |
| Power supply Cooling capacity Heating capacity Power Cooling consumption Heating Capacity control Casing colour Type Compressor Motor output Airflow rate Dimensions (HXWXD) Machine weight Sound level Sound power Operation range Heating Type Charge Piping Liquid | kW | 25.3 | 27.0 | 29.6 | 31.0 | 32.9 | 35.0 | | 37.2 | 39.3 | | |
| consumption | ower supply ooling capacity eating capacity eating capacity ower Cooling Heating Apacity control Apacity cont | KVV | 25.4 | 27.2 | 29.9 30.9 | | 33.0 | 34.7 | | 37.3 | 39.0 | |
| Capacity contr | rol | % | 5-1 | 100 | | | 100 | | | 3-1 | | |
| Casing colour | | | | | Ivory white | , | | | | Ivory white | , | |
| | Туре | | | | Hermetically Se | aled Scroll Type | | | | Hermetically Sea | | |
| Power supply Cooling capacity Heating capacity Power Cooling Heating Capacity Type Compressor Airflow rate Dimensions (HXWXD) Machine weight Sound level Sound power Operation range Heating Refrigerant Piping Liquid | t kW | (4.1X1)+(5.2X1)+ (5.2X1) | (5.2X1)+(5.2X1)+ (5.2X1) | (3.4X1)+(5.2X1)+ (4.4X1)+(4.0X1) | (5.2X1)+(5.2X1)+ (3.6X1)+(3.7X1) | (5.2X1)+(2.9X1)+ (3.3X1)+(3.6X1)+ (3.7X1) | (5.2X1)+(3.6X1)+ (3.7X1)+(3.6X1)+ (3.7X1) | | (2.9X1)+(3.3X1)+ (2.9X1)+(3.3X1)+ (4.4X1)+(4.0X1) | (2.9X1)+(3.3X1)+ (3.6X1)+(3.7X1)+ (4.4X1)+(4.0X1) | | |
| Airflow rato | | l/s | 2,749+2,966+2,966 | 2,966+2,966+2,966 | 2,616+2,966+3,883 | 2,966+2,966+3,883 | 2,966+3,8 | 383+3,883 | | 3,883+3,8 | 83+3,883 | |
| All llow rate | | m³/min | 165+178+178 | 178+178+178 | 157+178+233 | 178+178+233 | 178+2 | 33+233 | | 233+23 | 33+233 | |
| Dimensions (H | XWXD) | mm | (1,657X930X765)- +(1,657X | +(1,657X930X765) 930X765) | (1,657X930X765)- +(1,657X1 | +(1,657X930X765) ,240X765) | | (1,657X1,240X765) 1,240X765) | | (1,657X1,240X765)+ +(1,657X1 | | |
| Machine weigh | nt | kg | 195+19 | 95+195 | 185+195+300 | 195+195+285 | 195+2 | 85+285 | | 285+28 | 35+300 | |
| Sound level | | dB(A) | 63 | 6 | 4 | | 65 | | | 6 | 6 | |
| Sound power | | dB(A) | 83 | 84 | | 86 | | 87 | | 8 | 7 | |
| Operation | Cooling | °CDB | | | -5 to | o 49 | | | | -5 to | 49 | |
| range | Heating | °CWB | | | -20 to | 15.5 | | | | -20 to | 15.5 | |
| Power supply Cooling capacity Heating capacity Power Cooling Heating Capacity control Casing colour Compressor Motor output Airflow rate Dimensions (HXWXD) Machine weight Sound level Sound power Operation range Heating Refrigerant Type Charge Piping Liquid | R-410A | | | | | | R-410A | | | | | |
| Power supply Cooling capacity Heating capacity Power Cooling Heating Capacity Control Casing colour Compressor Motor output Airflow rate Dimensions (HXWXD) Machine weight Sound level Sound power Operation range Heating Refrigerant Type Charge Piping Liquid | kg | 6.0+6.3+6.3 | 6.3+6.3+6.3 | 5.9+6.3+11.7 | 6.3+6.3+10.4 | 6.3+10.3+10.4 | 6.3+10.4+10.4 | | 10.3+10.3+11.7 | 10.3+10.4+11.7 | | |
| Power supply Cooling capacity Heating capacity Power consumption Capacity control Casing colour Type Compressor Motor output Airflow rate Dimensions (HXWXD) Machine weight Sound level Sound power Operation range Refrigerant Refrigerant Piping Cooling heating Type Cooling or output Type Cooling or output Type Colarge Piping Liquid | mm | | | ∮ 19.1 (| (Brazing) | | | | | | | |
| Power supply Cooling capacity Heating capacity Power consumption Capacity control Casing colour Type Compressor Motor output Airflow rate Dimensions (HXWXD) Machine weight Sound level Sound power Operation range Refrigerant Refrigerant Piping Cooling Heating Type Cooling Gooling Type Cooling Gooling Type Charge Piping Liquid | | | | | | | | | φ 41.3 (Brazing) | | | |

Note: 1. Models with (E) are the outdoor units with anti-corrosion specifications. Please refer to Engineering Data Book for details.

2. Specifications are based on the following conditions;

•Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.

•Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.

•Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.

When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

■ VRV IV Q Series Outdoor Units Heat Pump RQYQ-T

Space Saving Type

| | | | 5 | | | | | | | | | | 11 | | | | | | |
|----------------|---------|----------------------|-----------------|---|--------------------------------|--------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---|---|---|---|--|--|--|--|--|
| | | | RQYQ18TY1A(E) | RQYQ20TY1A(E) | RQYQ30TSY1A(E) | RQYQ32TSY1A(E) | RQYQ34TSY1A(E) | RQYQ36TSY1A(E) | RQYQ38TSY1A(E) | RQYQ40TSY1A(E) | RQYQ42TSY1A(E) | RQYQ44TSY1A(E) | RQYQ46TSY1A(E) | RQYQ48TSY1A(E) | | | | | |
| MODEL | | Combination units | - | - | RQYQ12TY1A(E) RQYQ18TY1A(E) | RQYQ12TY1A(E) RQYQ20TY1A(E) | RQYQ16TY1A(E) RQYQ18TY1A(E) | RQYQ18TY1A(E) RQYQ18TY1A(E) | RQYQ18TY1A(E) RQYQ20TY1A(E) | RQYQ20TY1A(E) RQYQ20TY1A(E) | RQYQ12TY1A(E) RQYQ12TY1A(E) RQYQ18TY1A(E) | RQYQ12TY1A(E) RQYQ12TY1A(E) RQYQ20TY1A(E) | RQYQ12TY1A(E) RQYQ16TY1A(E) RQYQ18TY1A(E) | RQYQ12TY1A(E) RQYQ18TY1A(E) RQYQ18TY1A(E) | | | | | |
| Power supply | | | | | 3-phase 4-wire syste | em, 380-415 V, 50 Hz | | | | | 3-phase 4-wire syste | m, 380-415 V, 50 Hz | | | | | | | |
| Cooling capac | itv | Btu/h | 171,000 | 191,000 | 285,000 | 305,000 | 324,000 | 341,000 | 362,000 | 382,000 | 399,000 | 420,000 | 440,000 | 457,000 | | | | | |
| Cooling capac | ity | kW | 50.0 | 56.0 | 83.5 | 89.5 | 95.0 | 100 | 106 | 112 | 117 | 123 | 129 | 134 | | | | | |
| Heating capac | ity | Btu/h | 191,000 | 215,000 | 319,000 | 345,000 | 362,000 | 382,000 | 406,000 | 430,000 | 447,000 | 471,000 | 491,000 | 512,000 | | | | | |
| Treating Capac | ity | kW | 56.0 | 63.0 | 93.5 | 101 | 106 | 112 | 119 126 | | 131 | 131 138 | | 150 | | | | | |
| Power | Cooling | kW | 15.4 | 18.0 | 24.4 | 27.0 | 28.4 | 30.8 | 33.4 | 36.0 | 33.4 | 36.0 | 37.4 | 39.8 | | | | | |
| consumption | Heating | 9 800 | 15.1 | 17.5 | 24.2 | 26.6 | 27.9 | 30.2 | 32.6 | 35.0 | 33.2 | 35.6 | 37.0 | 39.3 | | | | | |
| Capacity contr | rol | % | 10-100 | 8-100 | 6-100 | | 5-100 | | 4-100 | | | | | | | | | | |
| Casing colour | | | | | Ivory white | e (5Y7.5/1) | | | | | Ivory white | e (5Y7.5/1) | | | | | | | |
| | Type | | | | Hermetically Se | aled Scroll Type | | | | | Hermetically Sea | aled Scroll Type | | | | | | | |
| Compressor | Motor | output kW | (4.4X1)+(4.0X1) | (4.6X1)+(5.5X1) | (5.2X1)+(4.4X1)+ (4.0X1) | (5.2X1)+(4.6X1)+ (5.5X1) | (3.6X1)+(3.7X1)+ (4.4X1)+(4.0X1) | (4.4X1)+(4.0X1)+ (4.4X1)+(4.0X1) | (4.4X1)+(4.0X1)+ (4.6X1)+(5.5X1) | (4.6X1)+(5.5X1)+ (4.6X1)+(5.5X1) | (5.2X1)+(5.2X1)+ (4.4X1)+(4.0X1) | (5.2X1)+(5.2X1)+ (4.6X1)+(5.5X1) | (5.2X1)+(3.6X1)+ (3.7X1)+(4.4X1)+(4.0X1) | (5.2X1)+(4.4X1)+ (4.0X1)+(4.4X1)+(4.0X1) | | | | | |
| Airflow rate | | ℓ/s | 3,883 | 4,466 | 2,966+3,883 | 2,966+4,466 | 3,883 | +3,883 | 3,883+4,466 | 4,466+4,466 | 2,966+2,966+3,883 | 2,966+2,966+4,466 | 2,966+3,8 | 83+3,883 | | | | | |
| Alfilow rate | | m³/min | 233 | 268 | 178+233 | 178+268 | 233- | +233 | 233+268 | 268+268 | 178+178+233 | 178+178+268 | 178+23 | 33+233 | | | | | |
| Dimensions (H | XWXD) | mm | 1,657X1, | 240X765 | (1,657X930X765)+ | (1,657X1,240X765) | (1,657X1,240X765) | +(1,657X1,240X765) | (1,657X1,240X765)- | +(1,657X1,240X765) | (1,657X930X765)+(1,657X93 | 80X765)+(1,657X1,240X765) | (1,657X930X765)+(1,657X1,2 | 40X765)+(1,657X1,240X765) | | | | | |
| Machine weigh | nt | kg | 300 | 320 | 195+300 | 195+320 | 285+300 | 300+300 | 300+320 | 320+320 | 195+195+300 | 195+195+320 | 195+285+300 | 195+300+300 | | | | | |
| Sound level | | dB(A) | 62 | 65 | 64 | 66 | 6 | 65 | 67 | 68 | 65 | 67 | 6 | 6 | | | | | |
| Sound power | | dB(A) | 84 | 87 | 85 | 88 | 87 | 87 | 89 | 90 | 86 | 88 | 87 | 88 | | | | | |
| Operation | Cooling | °CDB | | | -5 t | o 49 | | | | | -5 to | 49 | | | | | | | |
| range | Heating | °CWB | | | | -20 to 15.5 | | | | | | | | | | | | | |
| Refrigerant | Type | | | | R-4 | 10A | | | | | R-4 | 10A | | | | | | | |
| Tionigerani | Charge | kg | 11.7 | 11.8 | 6.3+11.7 | 6.3+11.8 | 10.4+11.7 | 11.7+11.7 | 11.7+11.8 | 11.8+11.8 | 6.3+6.3+11.7 | 6.3+6.3+11.8 | 6.3+10.4+11.7 | 6.3+11.7+11.7 | | | | | |
| Piping | Liquid | mm | φ 15.9(| Brazing) | | <i>ϕ</i> 19.1(E | Brazing) | | | | <i>ϕ</i> 19.1(E | Brazing) | | | | | | | |
| connections | Gas | | <i>ϕ</i> 28.6(| φ 28.6(Brazing) φ 34.9(Brazing) φ 41.3(Brazing) | | | φ 41.3(Brazing) | φ 41.3(Brazing) | | | | | | | | | | | |

Note: 1. Models with (E) are the outdoor units with anti-corrosion specifications. Please refer to Engineering Data Book for details.

VRV III Q Series Outdoor Units Heat Recovery RQCEQ-P

| | | | | | | 5 8 | ************************************** | | | | | | | |
|------------------------|---------------------------|-----------|-------------------------------------|-------------------------------------|---|---|---|---|---|---|---|---|--|--|
| MODEL | Combinunits | nation | RQCEQ280PY1 RQEQ140PY1 RQEQ140PY1 | RQCEQ360PY1 RQEQ180PY1 RQEQ180PY1 | RQCEQ460PY1 RQEQ140PY1 RQEQ140PY1 RQEQ180PY1 | RQCEQ500PY1 RQEQ140PY1 RQEQ180PY1 RQEQ180PY1 | RQCEQ540PY1 RQEQ180PY1 RQEQ180PY1 RQEQ180PY1 | RQCEQ636PY1 RQEQ212PY1 RQEQ212PY1 RQEQ212PY1 | RQCEQ712PY1 RQEQ140PY1 RQEC180PY1 RQEQ180PY1 RQEQ180PY1 RQEQ12PY1 | RQCEQ744PY1 RQEQ140PY1 RQEQ180PY1 RQEQ212PY1 RQEQ212PY1 | RQCEQ816PY1 RQEQ180PY1 RQEQ212PY1 RQEQ212PY1 RQEQ212PY1 | RQCEQ848PY1 RQEQ212PY1 RQEQ212PY1 RQEQ212PY1 RQEQ212PY1 | | |
| Power supply | <u> </u> | | | | 3-phase 4-wire syste | m, 380-415 V, 50 Hz | | ' | | 3-phase 4-wire syste | em, 380-415 V, 50 Hz | | | |
| | | Btu/h(*1) | 96,200 | 124,000 | 158,000 | 172,000 | 186,000 | 218,000 | 245,000 | 256,000 | 280,000 | 291,000 | | |
| Cooling capaci | city (*1) (*2) | (*1) | 28.2 | 36.3 | 46.3 | 50.4 | 54.4 | 64.0 | 71.7 | 74.9 | 82.2 | 85.4 | | |
| | | kW (*1) | 28.0 | 36.0 | 46.0 | 50.0 | 54.0 | 63.6 | 71.2 | 74.4 | 81.6 | 84.8 | | |
| I I a ship or a second | | Btu/h | 109,000 | 136,000 | 177,000 | 191,000 | 205,000 | 229,000 | 268,000 | 276,000 | 298,000 | 306,000 | | |
| Heating capaci | city | kW | 32.0 | 40.0 | 52.0 | 56.0 | 60.0 | 67.2 | 78.4 | 80.8 | 87.2 | 89.6 | | |
| Power | Cooling (*2) | kW | 7.04 | 10.3 | 12.2 | 13.9 | 15.5 | 21.9 | 21.2 | 23.3 | 27.1 | 29.2 | | |
| consumption | Heating | KVV | 8.00 | 10.7 | 13.4 | 14.7 | 16.1 | 17.7 | 20.7 | 21.2 | 23.1 | 23.6 | | |
| Capacity contr | rol | % | 13-100 | 10-100 | 8-100 | | 7-100 | | | 5- | 100 | | | |
| Casing colour | | | | | Ivory white | e (5Y7.5/1) | | | | Ivory whit | e (5Y7.5/1) | | | |
| Compressor | Туре | | | | Hermetically se | aled scroll type | | | | Hermetically se | ealed scroll type | | | |
| Compressor | Motor output | kW | 2.8X2 | 3.3X2 | 2.8X2+3.3 | 2.8+3.3X2 | 3.3X3 | 3.6X3 | 2.8+3.3X2+3.6 | 2.8+3.3+3.6X2 | 3.3+3.6X3 | 3.6X4 | | |
| Airflow rate | | ℓ/s | 1583+1583 | 1833+1833 | 1583+1583+1833 | 1583+1833+1833 | | 333+1833 | | 83+1833+1833+1833 | 1833+1833- | | | |
| | | m³/min | 95+95 | 110+110 | 95+95+110 | 95+110+110 | | 10+110 | | 95+110+110+110 | 110+110- | +110+110 | | |
| Dimensions (H | | mm | (1,680X635X765)- | , , | (1 | ,680X635X765)+(1,680X6 | 35X765)+(1,680X635X76 | | | (1,680X635X765)+(1,680X635X765) | , | | | |
| Machine weigh | ht | kg | 175- | | | 175+175+175 | | 179+179+179 | 175+175+179 | 175+175+179+179 | 175+179+179+179 | 179+179+179+179 | | |
| Sound level | 1 | dB(A) | 57 | 6 | 31 | 62 | 63 | 65 | 64 | 65 | | 6 | | |
| Operation | Cooling | °CDB | | | -5 t | | | | | | 0 43 | | | |
| range | Heating Cooling & Heating | °CWB | | | -20 to | | | | | -20 to 15.5 -6 to 15.5 | | | | |
| Defilerent | Туре | | | | R-4 | | | | | | 10A | | | |
| Refrigerant | Charge | kg | 10.3+10.3 | 10.6+10.6 | 10.3+10.3+10.6 | 10.3+10.6+10.6 | 10.6+10.6+10.6 | 11.2+11.2+11.2 | 10.3+10.6+10.6+11.2 | 10.3+10.6+11.2+11.2 | 10.6+11.2+11.2+11.2 | 11.2+11.2+11.2 | | |
| Piping Liqu | uid | | φ 9.5 (Brazing) | <i>ф</i> 12.7 (B | Brazing) | | | • | φ 15.9 (Brazing) | | φ 19.1 (Brazing) | | | |
| connecti Suct | tion gas | mm | φ 22.2 (Brazing) | φ 25.4 (Brazing) | | <i>ϕ</i> 28.6 (E | Brazing) | | φ 28.6 (Brazing) | | φ 34.9 (Brazing) | | | |
| ons High a | and low pressure gas | | φ 19.1 (Brazing) | | | | | φ 25.4 (Brazing) | φ 25.4 (Brazing) | φ 25.4 (Brazing) | φ28.6 (l | Brazing) | | |

Note: Specifications are based on the following conditions;

^{2.} Specifications are based on the following conditions;

Specifications are based on the following containunts;
 Cooling: Indoor temp: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
 Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.

[•] Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.

When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

<sup>Cooling: (*1) Indoor temp.: 27°CDB, 19.5°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.

(*2) Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.

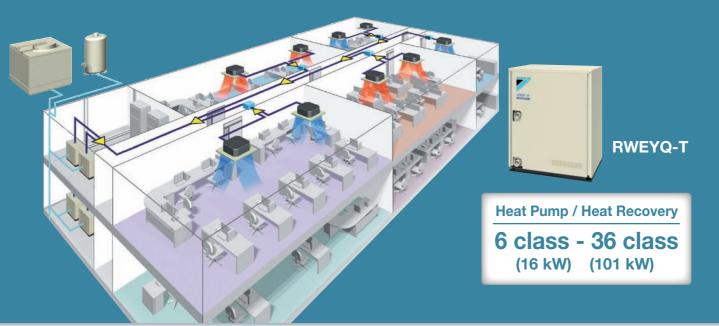
Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.</sup>

[•] Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

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When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

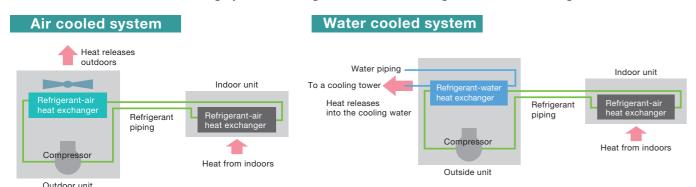
引列 IV W SERIES Water Cooled



A water cooled intelligent individual air conditioning system suitable for tall multi-storey buildings.

■ What is a water cooled system?

While an air cooled air conditioning system is designed to exchange heat recovered from indoors with outdoor air, a water cooled air conditioning system is designed for heat exchange with water Cooling Tower.



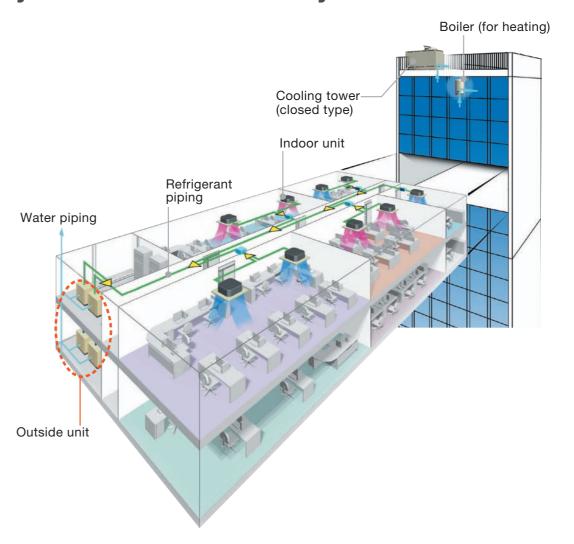
As a water cooled system does not require to exchange heat with outdoor air,

- Outside units can be installed indoors, for example, on basement floors.
- → High installation flexibility
- The air conditioning operation is stable even when the outdoor air temperature is high.
- →Improved comfort

Inverter System

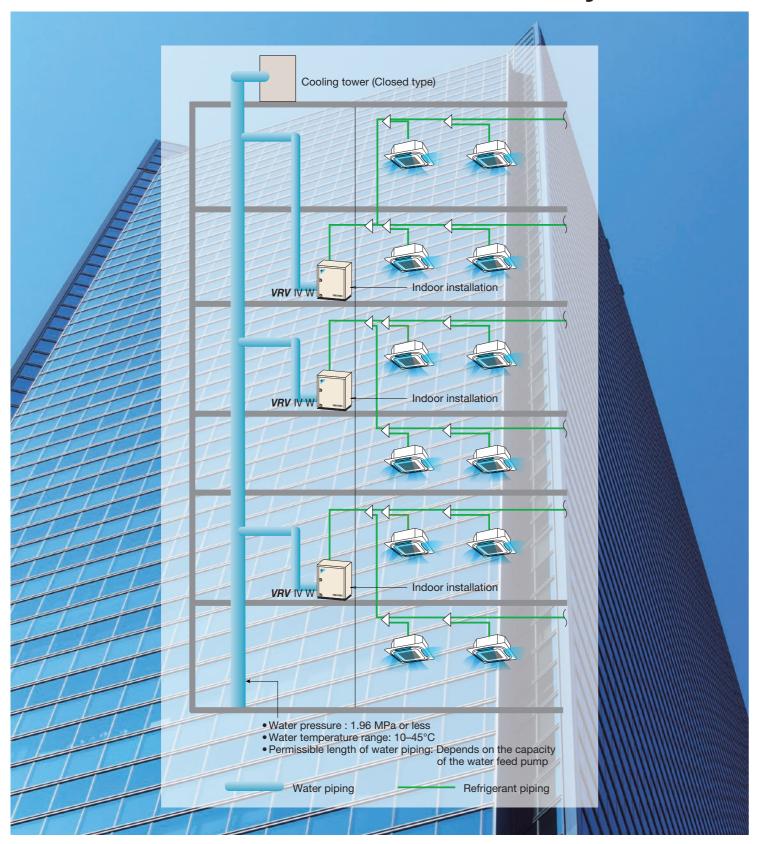


■The VRV IV W series combines the characteristics of a water cooled system with the VRV system



- Individual air conditioning is achieved via on-demand operation in each room.
- Outside units can be installed internally in a building if they can be connected with water piping.
- The length of the refrigerant piping can be minimized by installing outside units in proximity to indoor units.
- [The system helps reduce energy loss caused by long refrigerant piping.]
- Refrigerant piping is connected to indoor units. This design helps reduce the risks of indoor water leakage.

The VRV IV W series can meet various air conditioning needs by taking full advantage of the characteristics of a water cooled system.

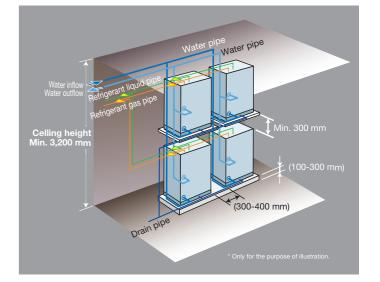


Adaptable to high-rise buildings due to easy installation on each floor

No balcony required

Compact outside units can be easily installed in the machine rooms on each floor. This helps overcome the restriction on differences in height of refrigerant piping. Individual air conditioning can be easily provided in high-rise buildings using this **VRV** system.





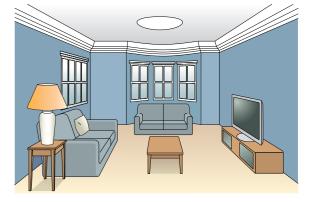
Easy to install in underground shopping malls and subway systems

Individual air conditioning can be easily provided in underground shopping malls, subway systems, etc. using this *VRV* system because heat exchange with outdoor air is not required.



Suitable for high rise residential development

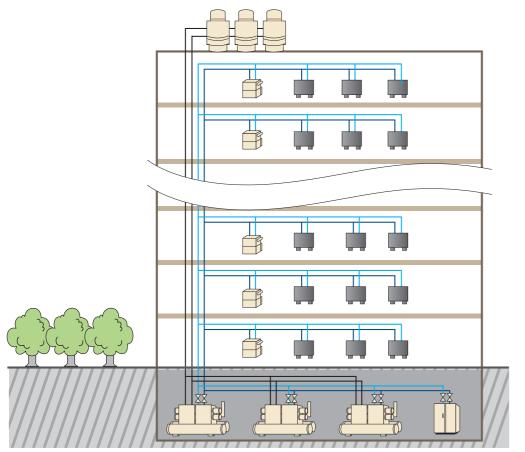
We offer an extensive lineup of small capacity outside units as well as connectable residential indoor units.



/RV IV W SERIES eat Pump / Heat Recovery

Heat Plump / Heat Recovery

As conventional water based systems age, service and maintenance issues arise



* System diagram

Why is a Retrofit Solution Necessary?

- 1 As equipment age, air-conditioning capacity and performance deteriorates.
- 2 The maintenance cost for the equipment keeps rising.
- 3 After an extended period of operations, the noise generated by the equipment increases.
- Scale formation in water pipes are difficult to clean, impact on performance and leads to corrosion issues.
- 5 Difficulty in catering to new tenancy design changes and requirements.
- Individual energy billing for multi tenancy application is difficult.
- After hours operations for tenants is costly and inefficient.
- 3 Building Management Systems are expensive to install and operate.

Issues to consider in a retrofit project

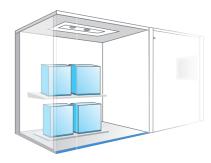
- 1 How to avoid damaging the building structure?
- 2 How to reduce the impact on tenants during renovation?
- 3 How to bring the renovation costs down to lowest level possible?
- 4 How to securely transport the air conditioning outside unit without incident?
- 6 How to simplify maintenance of the air conditioning system?

A Flexible System Convenient for Expansion / Retrofit

Benefits of Water Cooled VRV IV System

1 Outdoor unit located internally

The outside units of the water cooled *VRV* IV W series negates the need of direct heat exchange with outdoor air. This feature makes it possible to place the outside unit room inside the building, which greatly extends design flexibility and makes it easier to adapt to different types of buildings and open to various kinds of creative building exteriors.

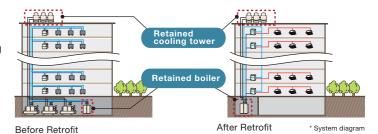


2 Part of the old system can be retained for cost reduction

The water cooled **VRV** IV W series can retain the cooling tower and boiler of the old system during renovation, effectively keeping costs down.

Note

Closed circuit is necessary. In case of Open Towers, use of Plate Heat Exchanger is required between Open Tower and condenser water circuit.



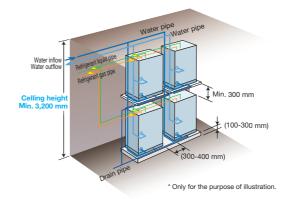
3 Minimal plant room space

The outside units of the water cooled VRV IV W series are conveniently compact, which not only enables transport by elevator possible, but also effectively simplifies installation. This also saves a great deal of time and labor.

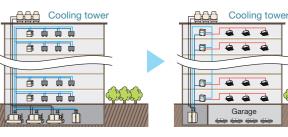


• The modular design featured by the water cooled VRV IV W series enables a free and flexible configuration of the outside units. Outside units may be double stacked to minimize plant space.

Stacking up of the outside units



Saving more space for other purposes



With a conventional central air conditioning system, the outside units take up a disproportionately large amount of space for installation.

With the water cooled **VRV** IV W series, the outside units are modular design and can be arranged more freely and flexibly, saving part of the outside unit room for purposes such as business or car parking.

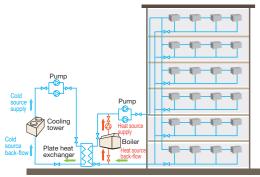
* System diagram

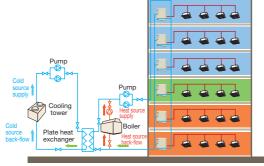
Water Cooled VRV IV as a Retrofit Solution



4 Floor by floor retrofit without interrupting

Based on the actual situation, renovation work can be carried out in phases, and floor by floor. This truly and properly gives expression to the outstanding flexibility of the water cooled *VRV* IV W series.





Water cooled packaged air conditioning system

Water cooled VRV IV W series

Renovation in

Phase 1
Phase 2

Phase 3

* System diagram

phases is possible.

Compact refrigerant pipes and VRV indoor units help to free up ceiling space

The outside units and indoor units of the water cooled **VRV** IV W series are connected by refrigerant pipes. As the **VRV** indoor units and the diameter of refrigerant pipes are significantly smaller than duct and water pipes, less ceiling space is occupied and more floor height is saved. Less work is needed for expansion and renovation of the air conditioning system, thus minimizing the influence on other tenants.

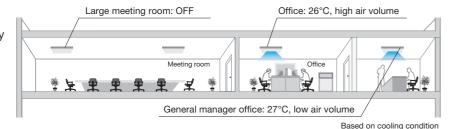


Individual air conditioning comfort can be realized when and where it is actually required.

1 Independent control provides greater comfort and convenience

Each indoor unit of the water cooled **VRV** IV W series can be independently controlled and adjusted according to each tenant's individual needs for temperature and air volume.

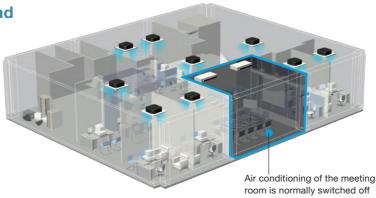
This achieves optimal comfort and convenience.



2 Higher efficiency with partial load

An air-conditioning plant operates at partial load for most of the year given the changing nature of both the external and internal loads.

By incorporating advanced DC Inverter, Refrigerant Control technology and VRT, Daikin's **VRV** IV W series is able to deliver superior partial load performances.

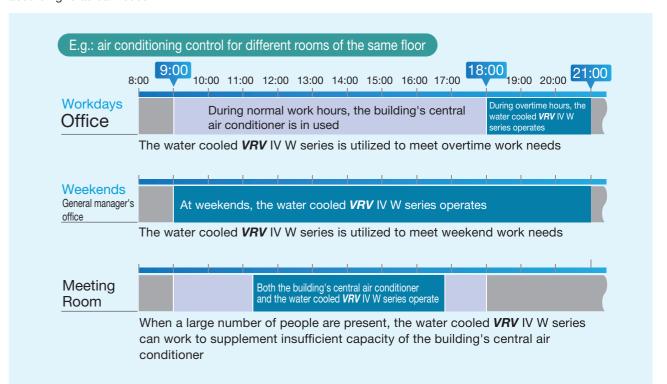


Actual conditions of the floor

3 Suitable as a low load or supplementary system

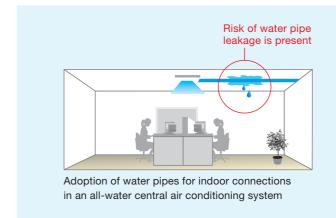
When combined up with a conventional central air conditioning system, the water cooled *VRV* IV W series can easily handle the air conditioning needs for after-hours work while the building's central air conditioner can be utilized during normal work hours. The water cooled *VRV* IV W series can be added according to actual needs.

- Cumbersome application procedures are eliminated, and the tenants' daily air conditioning costs decrease.
- Based on actual schedules, operation for each indoor unit can be precisely and individually set.



4 Connection using refrigerant pipes eliminate the risk of water leakage

The outside units and indoor units of the water cooled **VRV** IV W series are connected by refrigerant pipes, with water pipes centralised in the outside unit room and the pipe well. This arrangement greatly reduces the risk of damage of important equipment indoors caused by water leakage of the system.





Adoption of refrigerant pipes for indoor connections in a water cooled **VRV** IV W series system

Energy Saving



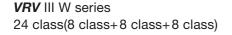
Compact and lightweight

Adoption of a water heat exchanger and optimisation of the refrigerant control circuit has resulted in compact and lightweight equipment.

A weight of 146 kg and height of 1,000 mm make it possible for installation in buildings with limited space, or where space is unavailable for outdoor units. This makes the system ideal for places that doesn't have area outside—such as underground malls.

* The unit is designed for indoor installation only.







1.560 mm

VRV W SERIES

24 class(12 class+12 class)

Footprint 1.29 m²

0.86 m²

294 kg

33% Decrease

34% Decrease

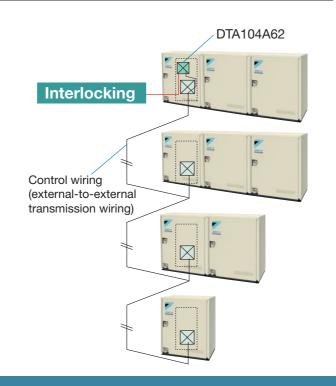
447 kg **Product Weight**

Enhanced usability

Centralised interlocking function

Centralised interlocking input operate by using an external control adaptor (DTA104A62).

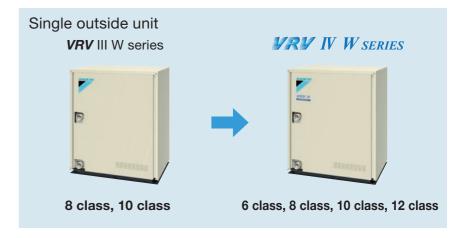
Using one external control adaptor circuit board makes centralised interlocking input to multiple units within the same water system possible.



Enhanced lineup

Wider capacity range from 6 to 36 class

With its enhanced lineup of 2 new models-6 class and 12 class single outside units, VRV IV W series offers a wider capacity range from 6 class to 36 class to meet broad variety of needs.



VRV IV W SERIES

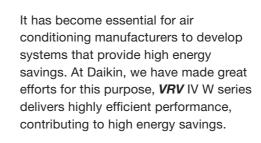




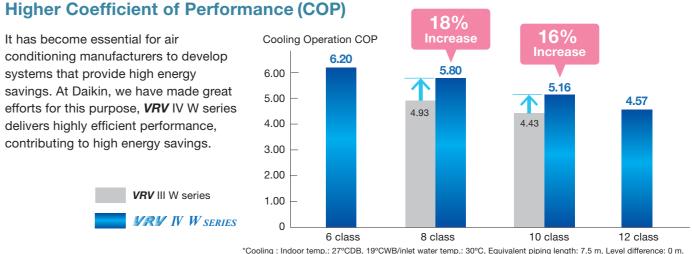


| Capacity | class | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 |
|---------------------------|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| Range | kW | 16.0 | 22.4 | 28.0 | 33.5 | 38.4 | 44.8 | 50.4 | 56.0 | 61.5 | 67.0 | 72.8 | 78.4 | 84.0 | 89.4 | 95.0 | 101 |
| Conventiona VRV III W se | | | | | | | | | | | | | | | | | |
| VRV IV W | V SERIES | | | | | | | | | | | | | | | | |

Energy saving







*Cooling: Indoor temp.: 27°CDB, 19°CWB/inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Level difference: 0 m.

89

VRV IV W SERIES Heat Pump / Heat Recovery

VRT-Variable Refrigerant Temperature

More Flexible System Design | IN W SERIES | Heat Pump / Heat Recovery |



■ State-of-the-art energy saving technology

Customise your VRV system for optimal annual efficiency

The new VRV IV W series now features VRT technology. VRT automatically adjusts refrigerant temperature to individual building and climate requirement, thus further improving annual energy efficiency and maintaining comfort.

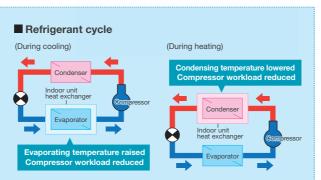
With this excellent technology, running costs are reduced.



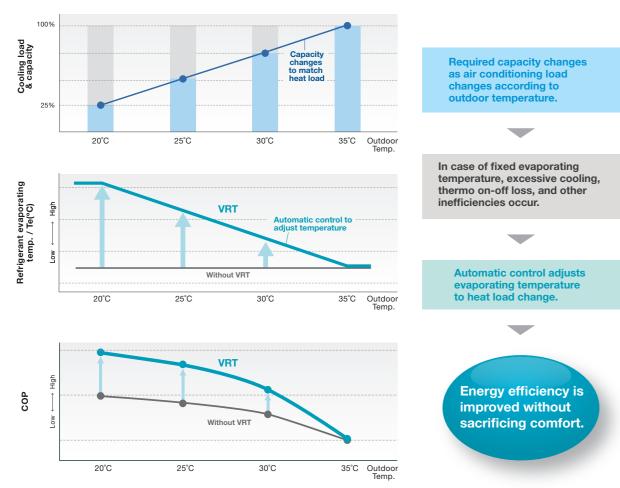
How is energy reduced?

During cooling, the refrigerant evaporating temperature (Te) is raised to minimise the difference with the condensing

During heating, condensing temperature (Tc) is lowered to minimise the difference to the evaporating temperature. Compressors work less, and this reduces power consumption.



■ Typical changes in evaporating temperature and COP depending on changing indoor load

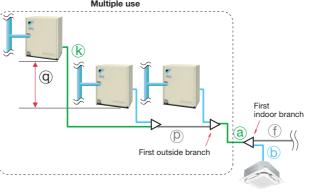


^{*} VRT is only available during either all cooling operation or all heating operation.

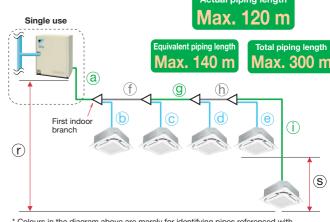
Long refrigerant piping length

Within the refrigerant piping system, a maximum of 120 m of actual piping length and 50 m of level difference between the VRV IV W series and indoor units are possible. Water piping does not enter occupied spaces, so there is little chance of water leaking.

For connection of only VRV indoor units.



the same as for single use



* Colours in the diagram above are merely for identifying pipes referenced with symbols such as @

| | | | Actual piping length | Example | Equivalent piping length |
|-------------------|---------------------------------|--------------------------------|----------------------|-------------------|--------------------------|
| | Refrigerant piping length | | 120 m | a+f+g+h+i | 140 m |
| Max. allowable | Total piping length | | 300 m | a+b+c+d+e+f+g+h+i | _ |
| piping length | Between the first indoor branc | h and the farthest indoor unit | 90 m* ¹ | f+g+h+i | _ |
| piping length | Between the first outside brand | ch and the last outside unit | 10 m | k+p | 13 m |
| Max. | Between the outside units (mu | Itiple use) | 2 m | q | _ |
| allowable | Between the indoor units | | 15 m | s | _ |
| level | Between the outside units | If the outside unit is above. | 50 m | r | _ |
| difference | and the indoor units | If the outside unit is below. | 40 m | r | _ |

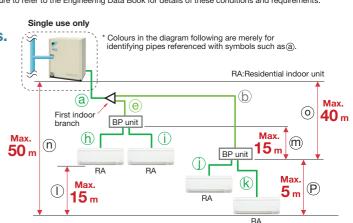
^{*1} No special requirements up to 40 m. The maximum actual piping length can be 90 m, depending on conditions. The VRV IV W series is easy to extend to 90 m by lessening the conditions from conventional VRV III W models. Be sure to refer to the Engineering Data Book for details of these conditions and requirements

For connection of only residential indoor units.

Max. 100 m

Max. 120 m

Max. 200 m



| | | piping length | Example | Example piping length |
|--------------------------------|---|---|--|--|
| Refrigerant piping length | | 100 m | a+b+k | 120 m |
| Total piping length | | 200 m | a+b+e+h+j+k | _ |
| Between the first indoor brane | ch and the farthest indoor unit | 50 m* ¹ | b+k | _ |
| | If indoor unit capacity index < 60 | 2 m - 15 m | h,i,j,k | _ |
| | If indoor unit capacity index is 60 | 2 m - 12 m | h,i,j,k | _ |
| indoor driit | If indoor unit capacity index is 71 | 2 m - 8 m | h,i,j,k | _ |
| Between the outside unit | If the outside unit is above. | 50 m | n | _ |
| and the indoor unit | If the outside unit is below. | 40 m | n | _ |
| Between the indoor units | | 15 m | I | _ |
| Between the outside unit and | the BP unit | 40 m | 0 | _ |
| Between BP units | | 15 m | m | _ |
| Between the BP unit and the | indoor unit | 5 m | р | _ |
| | Total piping length Between the first indoor brand Between BP unit and indoor unit Between the outside unit and the indoor unit Between the indoor units Between the outside unit and Between BP units | Total piping length Between the first indoor branch and the farthest indoor unit Between BP unit and indoor unit Between the outside unit and the indoor unit Between the outside unit and the indoor unit Between the indoor unit Between the outside unit and the BP unit | Refrigerant piping length Total piping length Between the first indoor branch and the farthest indoor unit Between BP unit and indoor unit Between the outside unit and the indoor unit Between the indoor unit Between the outside unit and the indoor unit Between the indoor unit Between the outside unit and the indoor unit Between the outside unit and the BP unit Between BP units Piping length 200 m 50 m*1 If indoor unit capacity index < 60 2 m - 15 m If indoor unit capacity index is 71 2 m - 8 m Between the outside unit and the outside unit is above. 50 m Between the indoor units Between the outside unit and the BP unit 40 m Between BP units | Refrigerant piping length Refrigerant piping length Total piping length Between the first indoor branch and the farthest indoor unit Between BP unit and indoor unit If indoor unit capacity index < 60 2 m - 15 m h,i,j,k If indoor unit capacity index is 60 2 m - 12 m h,i,j,k If indoor unit capacity index is 71 2 m - 8 m h,i,j,k Between the outside unit and the indoor unit If the outside unit is above. Between the indoor units Between the indoor units Between the outside unit and the BP unit Between BP units In the outside unit is below. Between BP units In the outside unit is below. In the outside unit is below. Between BP units In the outside unit is below. In the outside unit is below. |

^{*1.} When the piping length exceeds 20 m, the size of the main pipes (the gas side and the liquid side) must be increased. Please refer to Engineering Data Book for details.

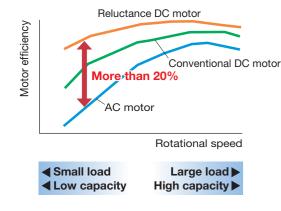
Advanced Technologies Achieve

Excellent Performance VAV IV W SERIES

High efficiency compressor to achieve a high COP

Compressor equipped with Reluctance DC motor

Daikin DC inverter models are equipped with the Reluctance DC motor for compressor. The Reluctance DC motor uses 2 different types of torque, neodymium magnet*1 and reluctance torque*2. This motor can save energy because it generates more power with a smaller electric power than an AC or conventional DC motor.

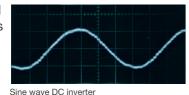


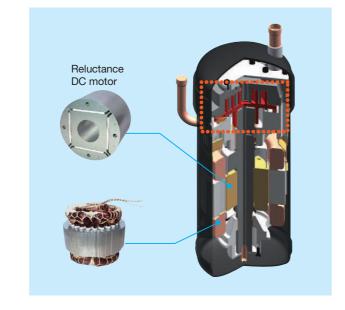
Note: Data are based on studies conducted under controlled conditions at a Daikin laboratory using Daikin products.

- *1 A neodymium magnet is approximately 10 times stronger than a standard ferrite magnet.
- *2 The torque created by the change in power between the iron and magnet parts.

Smooth sine wave DC inverter

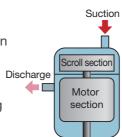
Use of an optimised sine wave smoothes motor rotation, further improving operating efficiency.





Scroll compressor

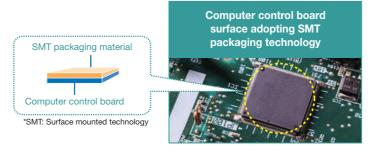
Sucked gas is compressed in the scrolling part before the heated motor, so that the machine compress the non-expanded gas, resulting in high efficiency compression.



Advanced control main PC board

SMT* packaging technology

- SMT packaging technology adopted by the whole computer control panel improves the anti-clutter performance.
- Protects your computer boards from the adverse effect of sandy and humid weather.

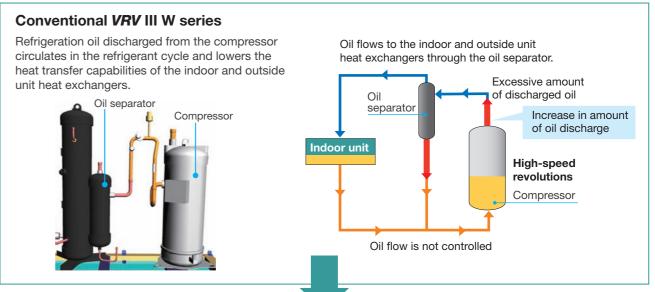


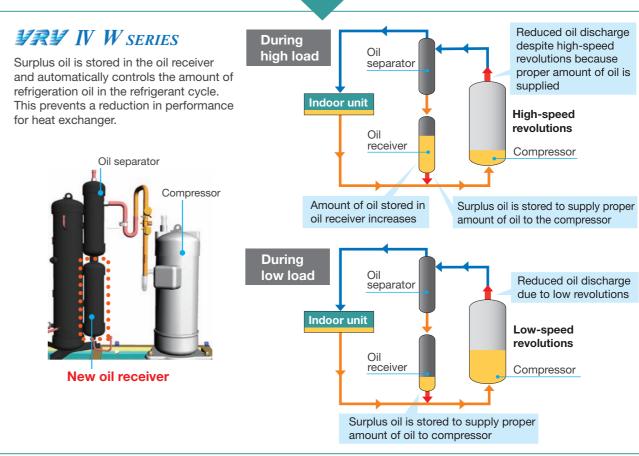
■ Minimize performance degradation from refrigeration oil in all stages of operation

Newly designed oil receiver

Adding a container vessel (Oil Receiver) helps eliminate performance degradation by retaining refrigeration oil and preventing excessive oil from flowing to the heat exchanger.

The new design enables the oil receiver to automatically supply the compressor with only the necessary amount of oil.





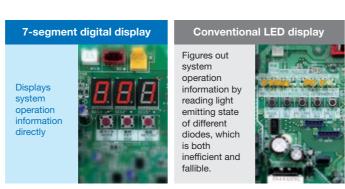
Reliable and Stable System

IRI IV W SERIES Heat Pump / Heat Recovery

Simplified commissioning and after-sales service

Function of information display by luminous digital tube

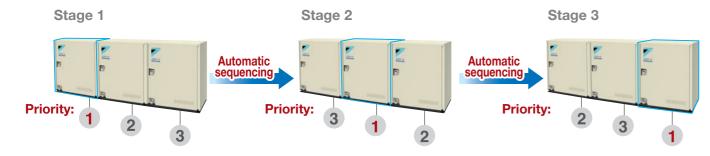
VRV IV W series utilises 7-segment luminous digital tubes to display system operation information, enabling the operational state to be visually displayed whilst facilitating simplified commissioning and after-sales service.



Outside unit sequencing technology

Automatic sequencing operation

During start-up, Daikin *VRV* IV W series outside unit sequencing operation will be automatically enabled to ensure balanced operation of each outdoor unit to improve longevity of equipment and stable operation.



Reliable and convenient air conditioning system

Auto-restart technology after power interruption

Even if the indoor or outside unit accidentally experiences a power interruption during normal operation, the system will keep a record of the operating mode adopted before the power interruption. When the power supply recovers, the air conditioning system will then restore itself back into the recorded operating status, simplifying the operation after an accidental power interruption.

Refrigerant pressure detection technology makes system operation more stable and efficient

Quick and accurate detection of the system's refrigerant status is crucial to the stable and efficient operation of the system. The water cooled **VRV** IV W series not only utilizes temperature sensors to detect the system's operating status, but also employs high and low pressure sensors to carry out a quick, comprehensive and accurate detection of the system's refrigerant status, ensuring more stable and efficient operation.

More stable operation

■ Low pressure protection: the system can effectively protect the compressor from being affected by instantaneous low pressure changes through monitoring the pressure data of the air suction pipe. Compared with the conventional low pressure protection method featuring temperature sensors, the pressure-sensor method boasts quicker response and can better reflect the system's instantaneous operating status.



High pressure protection: the system can also keep the compressor from being affected by instantaneous high pressure changes.

More efficient operation

A low pressure sensor, together with advanced supercooling technologies and high pressure protection control, helps to realize fast starting of the compressor, and can also quickly adjust rotational speed according to refrigerant status to adjust to indoor load fluctuations more rapidly.

Outside Unit Combinations

For connection of only VRV indoor units

| class | kW | Capacity index | Model | Combination | Total capacity index of connectable indoor units*2 | Maximum number of connectable indoor units |
|-------|------|----------------|------------------------|-------------------------|--|--|
| 6 | 16.0 | 150 | RWEYQ6T | RWEYQ6T × 1 | 75 to 195 | 9 |
| 8 | 22.4 | 200 | RWEYQ8T | RWEYQ8T × 1 | 100 to 260 | 13 |
| 10 | 28.0 | 250 | RWEYQ10T | RWEYQ10T × 1 | 125 to 325 | 16 |
| 12 | 33.5 | 300 | RWEYQ12T | RWEYQ12T × 1 | 150 to 390 | 19 |
| 14 | 38.4 | 350 | RWEYQ14T*1 | RWEYQ6T + RWEYQ8T | 175 to 455 | 22 |
| 16 | 44.8 | 400 | RWEYQ16T*1 | RWEYQ8T × 2 | 200 to 520 | 26 |
| 18 | 50.4 | 450 | RWEYQ18T*1 | RWEYQ8T + RWEYQ10T | 225 to 585 | 29 |
| 20 | 56.0 | 500 | RWEYQ20T*1 | RWEYQ10T × 2 | 250 to 650 | 32 |
| 22 | 61.5 | 550 | RWEYQ22T*1 | RWEYQ10T + RWEYQ12T | 275 to 715 | 35 |
| 24 | 67.0 | 600 | RWEYQ24T*1 | RWEYQ12T × 2 | 300 to 780 | 39 |
| 26 | 72.8 | 650 | RWEYQ26T*1 | RWEYQ8T × 2 + RWEYQ10T | 325 to 845 | 42 |
| 28 | 78.4 | 700 | RWEYQ28T*1 | RWEYQ8T + RWEYQ10T × 2 | 350 to 910 | 45 |
| 30 | 84.0 | 750 | RWEYQ30T*1 | RWEYQ10T × 3 | 375 to 975 | 48 |
| 32 | 89.5 | 800 | RWEYQ32T*1 | RWEYQ10T × 2 + RWEYQ12T | 400 to 1,040 | 52 |
| 34 | 95.0 | 850 | RWEYQ34T*1 | RWEYQ10T + RWEYQ12T × 2 | 425 to 1,105 | 55 |
| 36 | 101 | 900 | RWEYQ36T ^{*1} | RWEYQ12T × 3 | 450 to 1,170 | 58 |

^{*1.} An outside unit multi connection piping kit (option) is necessary for multiple connections of 14 class systems and above.

For connection of only residential indoor units

| Model name ^{*1} | kW | Maximum number of connectable indoor units | | | | | |
|--------------------------|------|--|-------|-------------------|------|------|---------------------------|
| | | | index | 80% ^{*2} | 100% | 130% | CONTRECTABLE INCOOR UNITS |
| RWEYQ6T | 16.0 | 6 | 150 | 120 | 150 | 195 | 9 |
| RWEYQ8T | 22.4 | 8 | 200 | 160 | 200 | 260 | 13 |
| RWEYQ10T | 28.0 | 10 | 250 | 200 | 250 | 325 | 16 |
| RWEYQ12T | 33.5 | 12 | 300 | 240 | 300 | 390 | 19 |

^{*1.} Only single outside unit (RWEYQ6-12T) heat pump type can be connected.

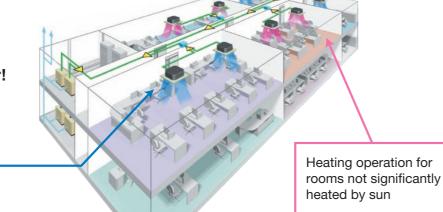
^{*2.} Total capacity index of connectable indoor units must be 50%-130% of the capacity index of the outside units.

^{*2.} Total capacity index of connectable indoor units must be 80%-130% of the capacity index of the outside unit.

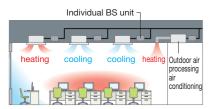
Easily responds to simultaneous heating and cooling needs.

Offers simultaneous cooling and heating operation on the same floor!

Cooling operation for rooms significantly heated by sun

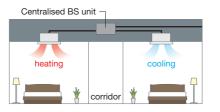


Increasing demand for simultaneous cooling and heating needs



Winter season (Office Building)

- Difference between the load of cold air and heat from room is large
- Can be use with the outdoor air processing air conditioning



Winter season (Hotel)

 Able to cater to individual heating and cooling requirement



Individual office

 Provides heating and annual cooling depending on space area

BS unit (Individual type/Centralised type)

By adding suction gas piping and a BS unit (sold separately), simultaneous cooling and heating operation can be provided by a single system.



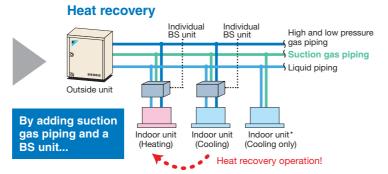


Individual BS unit

Centralised BS unit

Heat pump Gas piping Liquid piping Outside unit Indoor unit Indoor unit Indoor unit

* For indoor units used for cooling only (do not connect to BS unit when using for heat recovery), total capacity index must be 50% or less than the capacity index of the outdoor units.



2-stage heat recovery operation improves energy efficiency

Daikin offers 2-stage heat recovery operation.

The first stage of heat recovery operation is within the refrigerant system.

By controlling the BS unit that switches cooling and heating, simultaneous cooling and heating operation is made possible, with heat recovery performed between indoor units.

The second stage of heat recovery operation is within the water loop, where heat recovery is performed between the *VRV* IV W systems.

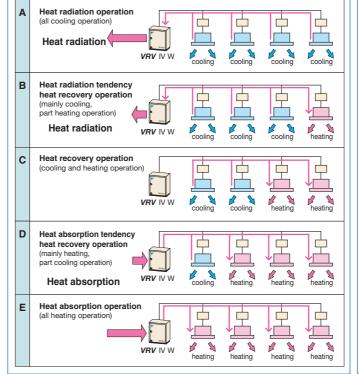
This 2-stage heat recovery operation substantially improves energy efficiency and makes the system the ideal solution to the requirements of modern office buildings, where some areas may require cooling even in winter, depending on the amount of sunshine received and the number of people in the room.

Stage 1

Simultaneous heating and cooling operation within the refrigerant system.

In mainly cooling, partly heating mode, the system recycles heat exhausted from the cooling operation to use for heating. In mainly heating, partly cooling mode, the system uses cooled post-heating operation refrigerant for cooling. Efficiency improves the more simultaneous operation is performed.

The first stage: Between indoor units



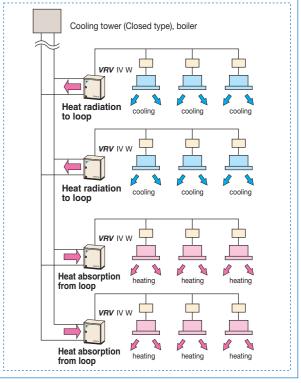
Note: • Above system configurations are for illustration purposes only.

Stage 2

Heat recovery operation between the *VRV* IV W systems.

Heat recovery operation is also available between systems connected to the same water loop, with systems exchanging heat via water. This increases energy efficiency.

The second stage: Between VRV IV W systems



Enhanced Lineup of BS Units

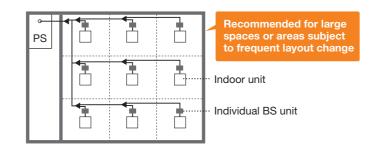
IPI IV W SERIES Heat Pump / Heat Recovery

Individual and centralised BS unit allow greater design flexibility





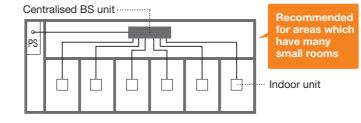
- Compact and flexible installation
- Flexible design
- Low noise



Centralised BS unit



BS4Q14AV1 BS6Q14AV1 BS8Q14AV1 BS10Q14AV1 BS12Q14AV1 BS16Q14AV1



■ Enhanced Line up

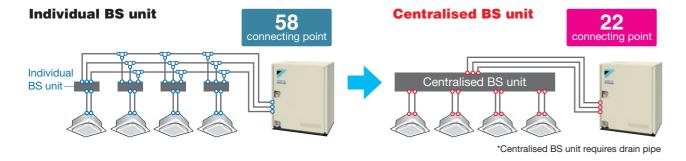
| Centralised BS Unit | | | | | | |
|----------------------------------|---|---|---|----|----|----|
| Conventional Centralised BS Unit | | | | | | |
| No. of branches | 4 | 6 | 8 | 10 | 12 | 16 |

Compact and lightweight design
 Compared to conventional BS unit (6 branch)



BS unit weight reduced by 73%

Installation and maintenance work have been made easier through the integration of multiple BS units.

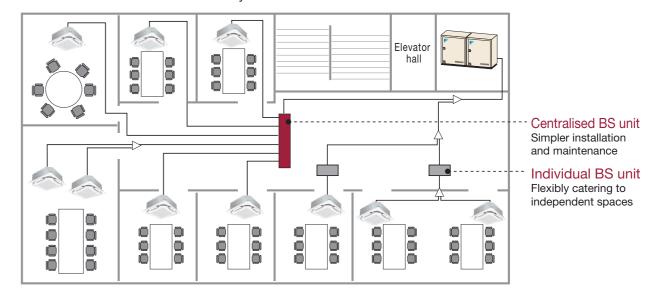


Greater design flexibility achieved by increasing the connection capacity range

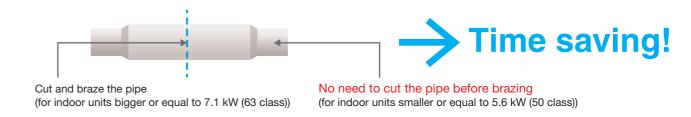


Combined use of a centralised BS unit and individual BS units meets the needs of many design plans.

Availability of individual type and centralised type BS units can better satisfy different design needs, with the former catering flexibly to independent spaces, and the latter for more convenient system installation and maintenance.



Faster installation of centralised BS unit thanks to open connection



Lower transient sound

New BS units achieve lower transient sound level than conventional BS units

| Maximum transient sou | - d | Centralised BS unit | | | | | | | | | | | |
|---------------------------|----------------------|---------------------|----------|----------|-----------|-----------|-----------|--|--|--|--|--|--|
| waxiiiiuiii transient sou | iid | 4 branch | 6 branch | 8 branch | 10 branch | 12 branch | 16 branch | | | | | | |
| New BS units | Sound level (dB(A))* | 45 | 47 | 47 | 48 | 48 | 49 | | | | | | |
| Conventional BS units | Sound level (dB(A))* | 51.5 | 53.5 | | _ | _ | | | | | | | |

| | Individual BS unit | | | | | | | | | | | | |
|---|--------------------|----------|----------|--|--|--|--|--|--|--|--|--|--|
| 1 | 100 type | 160 type | 250 type | | | | | | | | | | |
| | | 45 | 45 | | | | | | | | | | |
| | 45.5 | 46.5 | 47.5 | | | | | | | | | | |

^{*}Anechoic chamber conversion value, measured at a point 1 m downward from the unit centre.

VRV IV W SERIES Heat Pump / Heat Becovery

■ Enhanced range of choices

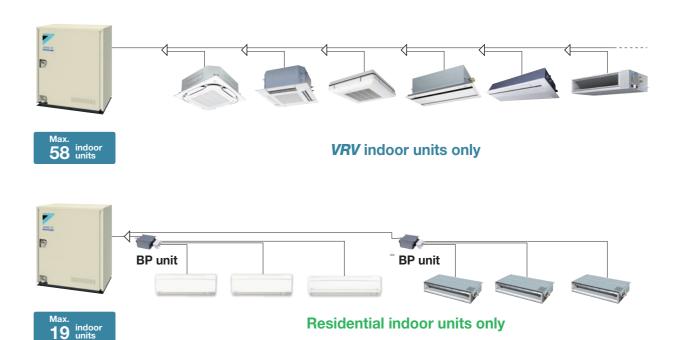
Indoor units can be selected from 2 lineups, both **VRV** and residential indoor units, to match rooms and preferences.

| to match rooms and pref | erences. | • | | | | | | | | | | | | | | | | |
|---|--------------|------------------------------------|-----|--------|--------------|-----|-----------------------|-------------|----------------------------|------|------|---|----------------------------|-------------|-----------|-----|--------|-------------|
| VRV indoor units | | | | | | | | | | | | | | | | | v line | |
| | | | 20 | 25 | 32 | 40 | 50 | _ | 71 | 80 | | | | 145 | | 180 | | |
| Type | Model Name | Capacity Range(kW) Capacity Index | 2.2 | | 3.6 31.25 | | | 7.1 62.5 | 8 71 | 80 | 11.2 | | | 16.2 145 | 18 160 | | 22.4 | |
| Ceiling Mounted Cassette (Round Flow with Sensing) | FXFSQ-AVM | | | | | • | • | • | 1 | | | • | | 1 10 | 100 | 133 | 200 | 200 |
| Ceiling Mounted Cassette (Round Flow) | FXFQ-PVE | | | • | • | | • | • | 1 | | • | • | 1 1 1 1 1 | | | | | |
| Ceiling Mounted Cassette (Compact Multi Flow) | FXZQ-A2VEB | | | • | • | • | • | | | | | | 1 1 1 1 1 | | | | | |
| 4-Way Flow Ceiling Suspended | FXUQ-AVEB | | | 1 | | | | 1 | | | • | | 1 1 1 1 1 1 | | | | | 1 |
| Ceiling Mounted Cassette (Double Flow) | ew FXCQ-AVM | | | • | | | | • | | | | | | | | | | |
| Ceiling Mounted Cassette (Single Flow) | FXEQ-AV36 | | • | | | | • | | | | | | 1 1 1 1 1 | | | | | 1 |
| Slim Ceiling Mounted Duct (Compact Series) | FXDQ-TV1B(A) | | • | • | • | • | • | • | 1 1 1 1 1 1 | | | | | | | | | |
| Slim Ceiling Mounted Duct | FXDQ-PDVE | (700mm width type) | • | | | | 1 1 1 1 1 | | | 1 | | | 1 | | | | | 1 |
| (Standard Series) | FXDQ-NDVE | (900 / 1,100mm width type) | | 1 | | | • | • | 1 | 1 | 1 | | | | | | | 1 |
| Ceiling Concealed Duct | FXDYQ-MAV1 | | | | | | 1 1 1 1 1 | | | | | | | | | | | |
| Middle Static Pressure Ceiling Mounted Duct | FXSQ-PAVE | | • | • | • | • | • | • | | • | • | • | • | | | | | ! ! |
| Ceiling Mounted Duct | FXMQ-PAVE | | • | • | • | • | • | • | ! ! ! ! ! | • | • | • | • | | | | | |
| Duct | FXMQ-PV1A | | | | | | | 1 | | | | | 1 1 1 1 1 | | | • | | |
| Outdoor-Air Processing Unit | FXMQ-MFV1 | | | | | | | | 1 | 1 | | • | | | | | • | |
| Ceiling Suspended | FXHQ-MAVE | | | | • | | | • | ! ! ! ! ! | 1 | • | | 1 | | | | | |
| | FXHQ-AVM | | | | | | | | | | | | | | | | | |
| Wall Mounted | ew FXAQ-AVM | | | | | | | | : : : : : | 1 | 1 | | 1 | | | | | 1 |
| Floor Standing | FXLQ-MAVE | | | • | • | | | • | | | 1 | | | | | | | |
| Concealed Floor Standing | FXNQ-MAVE | | | | | | | | ! ! ! ! ! | | | | | | | | | ! ! ! |
| Heat Reclaim Ventilator with DX-Coil and Humidifier | VKM-GA(M)V1 | | Ai | irflow | / rate | 500 |)-10(| 00 m | ³ /h | | | | | | | | | |
| Heat Reclaim Ventilator | VAM-GJVE | 00 | Ai | irflow | / rate | 150 |)-20(| 00 m | ³ /h | | | | | | | | | |

Residential indoor units with connection to BP units

| | | | 20 | 25 | 35 | 50 | 60 | 71 |
|--|------------|---------------------------|-----|-----|-----|-----|-----|-----|
| Type | Model Name | Rated Capacity (kW) | 2.0 | 2.5 | 3.5 | 5.0 | 6.0 | 7.1 |
| | | Capacity Index | 20 | 25 | 35 | 50 | 60 | 71 |
| Ceiling Mounted Cassette (Compact Multi Flow) | FFQ-BV1B | | | | | | | |
| Slim Ceiling Mounted Duct | FDXS-CVMA | (900/1,100 mm width type) | | | | | | |
| Wall | FTXS-KVMA | | | | | | | |
| Mounted | FTXS-KAVMA | | | | | | | |

Note: BP units are necessary for residential indoor units. Only single outside unit (RWEYQ6-12T) heat pump type can be connected.



*Refer to page 96 for the maximum number of connectable indoor units.

Specifications

URY IV W SERIES

■ VRV IV W Series Outside Units

RWEYQ-T

Heat Pump / Heat Recovery

| MODEL | | | RWEYQ6TYM | RWEYQ8TYM | RWEYQ10TYM | RWEYQ12TYM | RWEYQ14TYM | RWEYQ16TYM | RWEYQ18TYM | RWEYQ20TYM | RWEYQ22TYM | RWEYQ24TYM |
|-------------------------------------|---------------------------|--------|---------------------------------|-----------------------|--------------------------|---------------|------------------------|---------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Combination | units | - | | | | - | RWEYQ6TYM RWEYQ8TYM | RWEYQ8TYM RWEYQ8TYM | RWEYQ8TYM RWEYQ10TYM | RWEYQ10TYM RWEYQ10TYM | RWEYQ10TYM RWEYQ12TYM | RWEYQ12TYM RWEYQ12TYM |
| Power supply | | | | | 80-415 V/380 V, 50/60 Hz | | TIWETGOTTW | | 3-phase 4-wire system, 3 | | | TIWEIGIZITM |
| 1 Ower Supply | | Btu/h | 54.600 | 76.400 | 95.500 | 114.000 | 131.000 | 153.000 | 172.000 | 191.000 | 210,000 | 229.000 |
| Cooling capacity | 1 | kW | 16.0 | 22.4 | 28.0 | 33.5 | 38.4 | 44.8 | 50.4 | 56.0 | 61.5 | 67.0 |
| | | Btu/h | 61,400 | 85,300 | 107.000 | 128,000 | 147,000 | 171,000 | 193.000 | 215,000 | 235,000 | 256,000 |
| Heating capacity | 1 | kW | 18.0 | 25.0 | 31.5 | 37.5 | 43.0 | 50.0 | 56.5 | 63.0 | 69.0 | 75.0 |
| Power | Cooling | kW | 2.58 | 3.86 | 5.43 | 7.33 | 6.44 | 7.72 | 9.29 | 10.9 | 12.8 | 14.7 |
| consumption | Heating | kW | 2.69 | 3.98 | 5.60 | 7.87 | 6.67 | 7.96 | 9.58 | 11.2 | 13.5 | 15.7 |
| Casing colour lvory white (5Y7.5/1) | | 1.01 | 0.07 | lvory white (5Y7.5/1) | | | | | | | | |
| Dimensions (H×V | N×D) | mm | | | 780 × 550 | | | | | 0 × 550) × 2 | | |
| Diricisions (rix | Type | 111111 | Hermetically sealed scroll type | | | | | Hermetically sealed scroll type | | | | |
| Compressor | Motor output | kW | 1.9 | 2.8 | 3.7 | 4.7 | 1.9 + 2.8 | 2.8 × 2 | 2.8 + 3.7 | 3.7 × 2 | 3.7 + 4.7 | 4.7 × 2 |
| | Liquid | | | φ 9.5 (Flare) | 0 | φ12.7 (Flare) | φ 12.7 | | φ 15.9 | | φ 19.1 | |
| Refrigerant piping | Suction gas *1 | mm | <i>∮</i> 19.1 (E | , (, | φ 22.2 (E | , (== = 7 | , :=:: | (* 1211 2) | φ 28.6 (I | () | , | (* 1311 2) |
| connections | High and low pressure gas | ····· | φ 15.9*2, φ19. | <u> </u> | φ 19.1*2, φ 22. | | | | φ 22.2*2, φ 28. | | | |
| | Water inlet | | , | (0/ | tenal thread | (= | | | (PT1 1/4B) × 2 | (0/ | | |
| Water piping | Water outlet | | | PT1 1/4B in | tenal thread | | | | (PT1 1/4B) × 2 | 2 intenal thread | | |
| connections | Drain outlet | | | PS1/2B int | | | | | | intenal thread | | |
| Machine weight | (Operating weight) | kg | 146 | (148) | 147 | (149) | 146 × 2 | (148 × 2) | 146 + 147 (148 + 149) | | 147 × 2 (149 × 2) | |
| Sound level | (-1 | dB(A) | 49 | 50 | 51 | 53 | | 53 | | i4 | 55 | 56 |
| Operation range | (Inlet water temp.) | °C | - | 10 t | o 45 | | | | 101 | o 45 | | |
| Capacity control | 1 / | % | 23- | 100 | 19- | 100 | 23- | -100 | 20-100 | | 19-100 | |
| | Туре | | | | 10A | | | | | 10A | | |
| Refrigerant | Charge | kg | 3 | .5 | 4 | 2 | 3.5 | + 3.5 | 3.5 + 4.2 | | 4.2 + 4.2 | |

| MODEL | | | RWEYQ26TYM | RWEYQ28TYM | RWEYQ30TYM | RWEYQ32TYM | RWEYQ34TYM | RWEYQ36TYM | ٦ |
|---------------------|---------------------------|-------|-------------------------------|---------------------------------|-------------------|----------------------|--|------------|-------|
| | | | RWEYQ8TYM | RWEYQ8TYM | RWEYQ10TYM | RWEYQ10TYM | RWEYQ10TYM | RWEYQ12TYM | ٦ |
| Combination | units | | RWEYQ8TYM | RWEYQ10TYM | RWEYQ10TYM | RWEYQ10TYM | RWEYQ12TYM | RWEYQ12TYM | ٦ |
| | | | RWEYQ10TYM | RWEYQ10TYM | RWEYQ10TYM | RWEYQ12TYM | RWEYQ12TYM | RWEYQ12TYM | 7 |
| Power supply | | | 3-phase | 4-wire system, 380-415 V/380 V, | 50/60 Hz | 3-phase | 4-wire system, 380-415 V/380 V, 5 | 0/60 Hz | N 1. |
| Cooling consoits | | Btu/h | 248,000 | 268,000 | 287,000 | 305,000 | 324,000 | 345,000 | 7 ' |
| Cooling capacity | | kW | 72.8 | 78.4 | 84.0 | 89.5 | 95.0 | 101 | 7 |
| Heating consoits | | Btu/h | 278,000 | 300,000 | 322,000 | 345,000 | 365,000 | 386,000 | |
| Heating capacity | | kW | 81.5 | 88.0 | 94.5 | 101 | 107 | 113 | ٦ |
| Power | Cooling | kW | 13.2 | 14.7 | 16.3 | 18.2 | 20.1 | 22.0 | |
| consumption | Heating | kW | 13.6 | 15.2 | 16.8 | 19.1 | 21.3 | 23.6 | ٦ |
| Casing colour | | | | Ivory white (5Y7.5/1) | | | Ivory white (5Y7.5/1) | | ٦ |
| Dimensions (Hx) | V×D) | mm | | (1,000 × 780 × 550) × 3 | | | $(1,000 \times 780 \times 550) \times 3$ | | |
| 0 | Туре | | | Hermetically sealed scroll type | | | Hermetically sealed scroll type | | |
| Compressor | Motor output | kW | 2.8 × 2 + 3.7 | 2.8 + 3.7 × 2 | 3.7 × 3 | $3.7 \times 2 + 4.7$ | $3.7 + 4.7 \times 2$ | 4.7 × 3 | ٦ |
| Defrice rent pining | Liquid | | | ∮19.1 (Flare) | | | ∮19.1 (Flare) | | |
| Refrigerant piping | Suction gas *1 | mm | | φ 34.9 (Brazing) | | | | | |
| connections | High and low pressure gas | | | φ 28.6*2, φ 34.9*3 (Brazing) | | | | | ٦ |
| \\/ | Water inlet | | | (PT1 1/4B) × 3 intenal thread | | | (PT1 1/4B) × 3 intenal thread | | |
| Water piping | Water outlet | | | (PT1 1/4B) × 3 intenal thread | | | (PT1 1/4B) × 3 intenal thread | | |
| connections | Drain outlet | | | (PS1/2B) × 3 intenal thread | | | (PS1/2B) × 3 intenal thread | | 3. |
| Machine weight | (Operating weight) | kg | 146 × 2 + 147 (148 × 2 + 149) | 146 + 147 × 2 (148 + 149 × 2) | 147 × 3 (149 × 3) | 147 × 3 (149 × 3) | | | ٦ |
| Sound level | | dB(A) | 55 | Į. | 56 | 57 58 | | | 4. |
| Operation range | (Inlet water temp.) | °C | | 10 to 45 | | 10 to 45 | | | |
| Capacity control | | % | 5 21-100 20-100 19-100 | | 19-100 | | | 7 | |
| Defrieswent | Туре | | | R-410A | | | R-410A | | ٦., |
| Refrigerant | Charge | kg | 3.5 + 3.5 + 4.2 | 3.5 + 4.2 + 4.2 | 4.2 + 4.2 + 4.2 | | 4.2 + 4.2 + 4.2 | | _] '; |

1. Specifications are based on the following conditions; ·Cooling : Indoor temp. : 27°CDB, 19°CWB / inlet

water temp. :30°C, Equivalent piping length :
7.5 m, Level difference : 0 m.

Heating : Indoor temp. : 20°CDB / inlet water temp. :
20°C, Equivalent piping length : 7.5 m,
Level difference : 0 m.

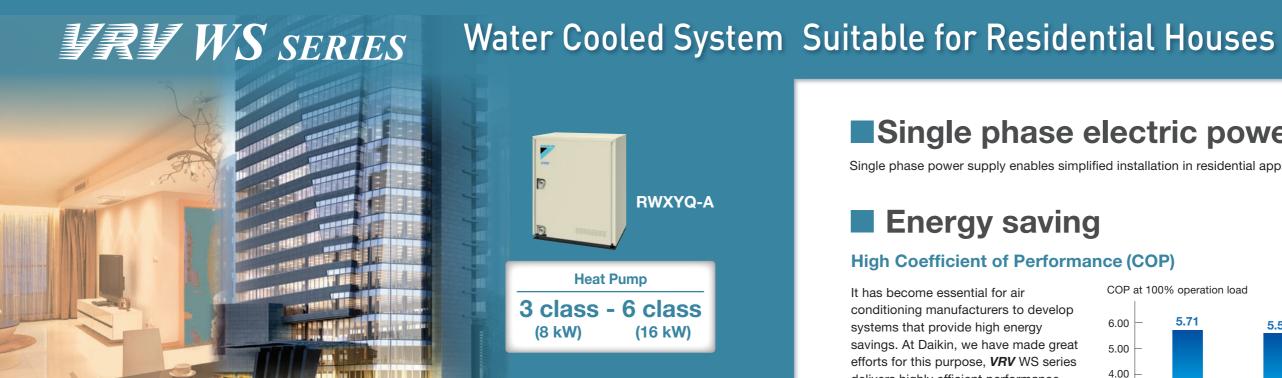
Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.
During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.
When there is concern for noise to the surrounding area such as residences, we recommend investigating the installation location and taking

- soundproofing measures.

 2. This unit cannot be installed in the outdoors. Install indoors (Machine room, etc).

 3. Hold ambient temperature at 0 – 40°C and humidity at
- 80%RH or less. Heat rejection from the casing: 0.51 kW / 6 - 8 class / hour, 0.58 kW / 10 - 12 class / hour. 4. Connectable to closed type cooling tower only.
- *1 : In the case of heat pump system, suction gas pipe is not used.

- *2: In the case of heat recovery system.
 *3: In the case of heat pump system.
 *Be sure to refer to the Engineering Data Book for facility



Easy installation & servicing

Compact and lightweight

The adoption of a new water heat exchanger and optimisation of the refrigerant control circuit has resulted in compact and lightweight design. The unit weight of 90 kg and height of 1,000 mm makes installation easy.

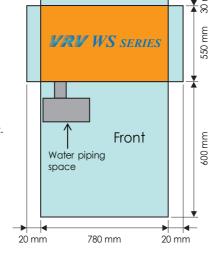
- * The unit is designed for indoor installation only.
- Small footprint & lightweight
- Minimal service & installation space required
- Stackable flat top design



Service space (Single installation)

- Service access from the front with minimal space required at rear of the condenser (30 mm)

Note: This is only applicable when drain pipe is connected to the front drain port. Please secure 500 mm rear service space if drain pipe is connected to the rear drain port.



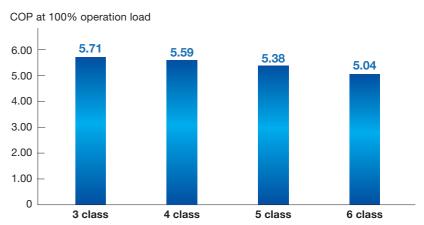
Single phase electric power supply

Single phase power supply enables simplified installation in residential applications.

Energy saving

High Coefficient of Performance (COP)

It has become essential for air conditioning manufacturers to develop systems that provide high energy savings. At Daikin, we have made great efforts for this purpose, VRV WS series delivers highly efficient performance, contributing to high energy savings.



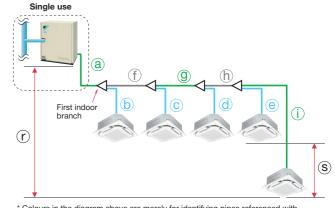
VRV WS SERIES

*Cooling: Indoor temp.: 27°CDB, 19°CWB/inlet water temp.: 30°C, Equivalent piping length; 7.5 m. Level difference; 0 m.

Long refrigerant piping length

Within the refrigerant piping system, a maximum of 120 m of actual piping length and 30 m of level difference between the VRV WS series and indoor units are possible. Water piping does not enter occupied spaces, so there is little chance of water leaking.

> **Actual piping length** Max. 120 m **Equivalent piping length** Max. 140 m **Total piping length** Max. 300 m



* Colours in the diagram above are merely for identifying pipes referenced with

| | | Actual piping length | Example | Equivalent piping length |
|---------------------------------|--|----------------------|-------------------|--------------------------|
| | Refrigerant piping length | 120 m | a+f+g+h+i | 140 m |
| Max. allowable piping length | Total piping length | 300 m | a+b+c+d+e+f+g+h+i | _ |
| | Between the first indoor branch and the farthest indoor unit | 40 m | f+g+h+i | _ |
| Max. allowable level difference | Between the indoor units | 15 m | S | _ |
| wax. anowable level unlerence | Between the outside units and the indoor units | 30 m | r | _ |



■ Tube-in-Tube Type Heat Exchanger

The Tube-in-Tube type heat exchanger with refrigerant lines spiraling around the water circuit in a counter flow design delivers superior heat exchange. While the inner groove structure of the water circuit lowers risk of blockage and delivers optimal performance.



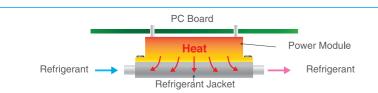
Tube in tube structure for simple installation and maintenance



Use of copper pipes enhances tolerance against corrosive effects of chloride ions

Refrigerent cooling technology

By introducing refrigerant cooling for **VRV** WS's inverter power module, heat rejected from the unit to machine room can be significantly reduced. This also helps to keep the unit operation stable even at high ambient temperature and reduces PCB failure ratio.



The main heat generating parts (inverter power module) in the electric component is adopted to reduce the size of the refrigerant cooling technology. Heat rejection from casing: 0.21 kW/3 class, 0.28 kW/4 class, 0.31 kW/5 class, 0.35 kW/6 class.



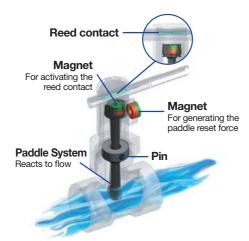
Easy maintenance

The electrical components are strategically located at the front which eases the maintenance process. Moreover, the major components are also designed in a way that they can be accessed from front for maintenance.



Built in water flow switch

Mechanical water flow switch is built into the system to enhance system reliability.



Standard water strainer

A standard water strainer is provided together with the unit as an accessory item. This reduces the additional cost and installation time at field. A standard water reduces installation time.



■ Enhanced range of choices

| | | | | | | | | | | | | | New | lineup | | |
|--|--------------|------------------------------------|-----|-----|--------------|------|-----------|-------------|---------|---------|------|-----------|-----------|---|-----------|------------------|
| | | | 20 | 25 | 32 | 40 | 50 | 63 | 71 | 80 | 100 | 125 | 140 | - | 160 | 180 |
| Туре | Model Name | Capacity Range(kW) Capacity Index | 2.2 | 2.8 | 3.6 31.25 | 4.5 | 5.6 50 | 7.1 62.5 | 8 71 | 9 80 | 11.2 | 14 125 | 16 140 | 16.2 145 | 18 160 | 20 180 |
| Ceiling Mounted Cassette (Round Flow with Sensing) | FXFSQ-AVM | | | | • | | | | | | • | | • | | | |
| Ceiling Mounted Cassette (Round Flow) | FXFQ-PVE | | | | | | | | | | | | | | | |
| Ceiling Mounted Cassette (Compact Multi Flow) | FXZQ-A2VEB | | | | | | | | | | | | | 1 | | |
| 4-Way Flow Ceiling Suspended | FXUQ-AVEB | | | | | 1 | | | • | | | | | | | |
| Ceiling Mounted Cassette (Double Flow) | New FXCQ-AVM | | | | | | | | | | | | | | | |
| Ceiling Mounted Cassette Single Flow) | FXEQ-AV36 | | | | | | | | | | | | | | | |
| Slim Ceiling Mounted Duct (Compact Series) | FXDQ-TV1B(A) | | • | • | • | • | • | | 1 | | 1 | | | | | |
| Slim Ceiling Mounted Duct | FXDQ-PDVE | (700mm width type) | | | | | | | | | | | | | | i i i i |
| (Standard Series) | FXDQ-NDVE | (900 / 1,100mm width type) | | | | | | | | | 1 | | | | 1 | 1 |
| Ceiling Concealed Duct | FXDYQ-MAV1 | | | | | | | | | | | | | | | |
| Middle Static Pressure Ceiling Mounted Duct | FXSQ-PAVE | | • | • | | | • | | | | | | • | | | |
| Ceiling Mounted | FXMQ-PAVE | | | | | | | | | | | | | | | |
| Duct | FXMQ-PV1A | | | | | 1 | | 1 | | | | | | | • | • |
| Ceiling Suspended | FXHQ-MAVE | | | | • | | | | | | • | | | | | |
| ooming ouspended | New FXHQ-AVM | | | | | | | | | | | | | | | |
| Wall Mounted | New FXAQ-AVM | | | | | | | | | | | | | | | |
| Floor Standing | FXLQ-MAVE | | | | | | | | | | 1 | | | | | |
| Concealed Floor Standing | FXNQ-MAVE | | | | | | | | | | | | | | | |

Specifications

VRV WS SERIES

■ VRV WS Series Outside Units

RWXYQ-A

Heat Pump

| | | | | 0 | | | | | | |
|--|--------------------|---------|---|-----------------------|---------------|--------------------------|--|--|--|--|
| MODEL | | | RWXYQ3AV1 | RWXYQ4AV1 | RWXYQ5AV1 | RWXYQ6AV1 | | | | |
| Power supply | | | | 1-Phase, 220 | -240 V, 50 Hz | | | | | |
| Cooling capacity | | | 27,300 | 38,200 | 47,800 | 54,600 | | | | |
| Cooling Capacity | | kW | 8.0 | 11.2 | 14.0 | 16.0 | | | | |
| Heating consists | | Btu/h | 30,700 | 42,700 | 54,600 | 61,400 | | | | |
| Heating capacity k | | | 9.0 | 12.5 | 16.0 | 18.0 | | | | |
| Power | Cooling | kW | 1.40 | 2.00 | 2.60 | 3.17 | | | | |
| consumption | Heating | kW | 1.60 | 2.10 | 2.60 | 2.80 | | | | |
| Casing colour | | | | Ivory white (5Y7.5/1) | | | | | | |
| Dimensions (H×W | /×D) | mm | | 1,000×7 | '80×550 | | | | | |
| Сатаналан | Туре | | Hermetically sealed swing type | | | | | | | |
| Compressor | Motor output | kW | 1.92 | | | | | | | |
| Refrigerant piping | Liquid | mm | φ 9.5 (Flare) | | | | | | | |
| connections | Suction gas |] ''''' | | φ15.9 | (Flare) | | | | | |
| | Water inlet | | | PT1B external thread | | PT1 1/4B external thread | | | | |
| Water piping connections | Water outlet | | | PT1B external thread | | PT1 1/4B external thread | | | | |
| 00111100110110 | Drain outlet | | | PS1/2B inte | ernal thread | | | | | |
| Machine weight | | kg | 90 | 9 | 4 | 99 | | | | |
| Sound level | | dB(A) | 48 | | 50 | | | | | |
| Sound power | | dB(A) | 66 | | 68 | | | | | |
| Operation range (| Inlet water temp.) | °C | 15 to 45 (Range for continuous operation) | | | | | | | |
| Capacity control % | | | 20-100 | | | | | | | |
| Type | | | R-410A | | | | | | | |
| Refrigerant Charge kg | | | 2.2 | 2 | .4 | 2.7 | | | | |
| Rated water flow (Range of water flow) L | | | 30 (15 to 45) | 40 (20 to 60) | 50 (25 to 75) | 57 (28.5 to 85.5) | | | | |

Note: 1. Specifications are based on the following conditions;

Cooling: Indoor temp.: 27°CDB, 19°CWB / inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Level difference: 0 m. Heating: Indoor temp.: 20°CDB / inlet water temp.: 20°C, Equivalent piping length: 7.5 m, Level difference: 0 m. Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.

When there is concern for noise to the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

This unit cannot be installed in the outdoors. Install indoors (Machine room, etc).
 Hold ambient temperature at 0-40°C and humidity at 80% RH or less.

Heat rejection from the casing: 0.21 kW/3 class /hour, 0.28 kW/4 class /hour, 0.31 kW/5 class /hour, 0.35 kW/6 class /hour

Outside Unit Combinations

| Model name | kW | class | Capacity index | Total capacity | index of connectab | Maximum number of connectable indoor units | |
|------------|------|-------|----------------|----------------|--------------------|--|---------------------------|
| | | | шаох | 50% | 100% | 130% | GOTHIOGRAPIO INGGOT GITHO |
| RWXYQ3A | 8.0 | 3 | 75 | 37.5 | 75 | 97.5 | 4 |
| RWXYQ4A | 11.2 | 4 | 100 | 50 | 100 | 130 | 6 |
| RWXYQ5A | 14.0 | 5 | 125 | 62.5 | 125 | 162.5 | 8 |
| RWXYQ6A | 16.0 | 6 | 150 | 75 | 150 | 195 | 9 |

Note: Total capacity index of connectable indoor units must be 50%-130% of the capacity index of the outside unit.

Daikin offers a wide range of indoor units includes both **VRV** and residential models responding to variety of needs of our customers that require air-conditioning solutions.





Presence of people and floor

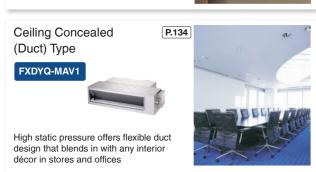




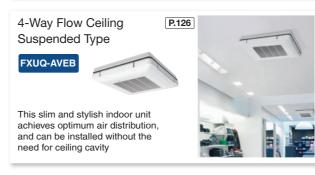
Quiet, compact, and designed for user













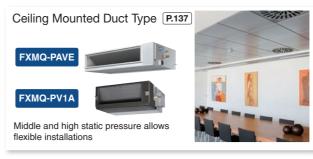


Mounted Duct Type

allow flexible installations

FXSQ-PAVE







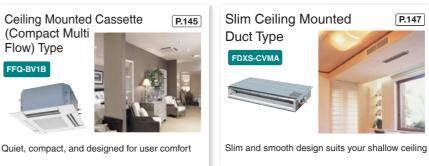














Air treatment equipment



Heat Reclaim Ventilator

VAM-GJVE



FXFSQ-A

Ceiling Mounted Cassette (Round Flow with Sensing) Type

Round flow with sensing



Panel variations (Option)

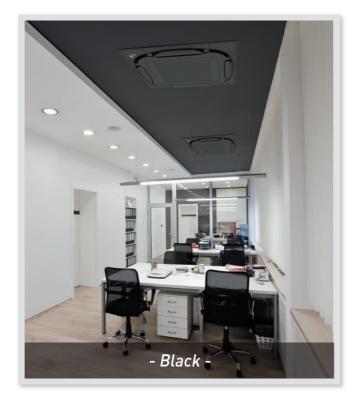


Standard panel with sensing BYCQ125EEF (Fresh White)



Standard panel with sensing BYCQ125EEK (Black)





Specifications

Ceiling Mounted Cassette (Round Flow with Sensing) Type

| | MOD | EL | | FXFSQ25AVM | FXFSQ32AVM | FXFSQ40AVM | FXFSQ50AVM | FXFSQ63AVM | FXFSQ80AVM | FXFSQ100AVM | FXFSQ125AVM | FXFSQ140AVM | | |
|--------------------|-----------------------|---------|--------|------------|--|-------------------------|-------------------------|-------------------------|-------------------------|--------------------------|----------------------------|----------------------------|--|--|
| Power supply | / | | | | 1-phase, 220-240 V/220-230 V, 50/60 Hz | | | | | | | | | |
| Casling | aib. | | Btu/h | 9,600 | 12,300 | 15,400 | 19,100 | 24,200 | 30,700 | 38,200 | 47,800 | 54,600 | | |
| Cooling capac | Cooling capacity | | kW | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 9.0 | 11.2 | 14.0 | 16.0 | | |
| Haatina aana | | | Btu/h | 10,900 | 13,600 | 17,100 | 21,500 | 27,300 | 34,100 | 42,700 | 54, | 600 | | |
| Heating capac | City | | kW | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | 10.0 | 12.5 | 16 | 3.0 | | |
| Danier aanaim | | Cooling | kW | 0.0 | 28 | 0.035 | 0.056 | 0.061 | 0.092 | 0.164 | 0.170 | 0.194 | | |
| Power consun | приоп | Heating | KVV | 0.0 | 26 | 0.034 | 0.056 | 0.060 | 0.092 | 0.144 | 0.159 | 0.183 | | |
| Casing | | | | | Galvanised steel plate | | | | | | | | | |
| | | | l/s | 217/208/19 | 92/183/167 | 283/225/208/ 200/183 | 383/342/317/ 242/183 | 392/350/333/ 267/225 | 408/367/342/ 333/250 | 558/508/450/ 392/350 | 575/525/475/ 425/383 | 592/542/492/ 442/383 | | |
| Airflow rate (H | н/нм/м | /ML/L) | m³/min | 13/12.5/1 | 1.5/11/10 | 17/13.5/12.5/ 12/11 | 23/20.5/19/ 14.5/11 | 23.5/21/20/ 16/13.5 | 24.5/22/20.5/ 20/15 | 33.5/30.5/27/ 23.5/21 | 34.5/31.5/28.5/ 25.5/23 | 35.5/32.5/29.5/ 26.5/23 | | |
| Sound level (H | H/HM/N | I/ML/L) | dB(A) | 30/29.5/2 | 8.5/28/27 | 35/29.5/29/ 28/27 | 38/35/34.5/ 29.5/27 | 38/36/35.5/ 31.5/28 | 39/37/36/ 35.5/31 | 44/41/38/ 35/33 | 45/42.5/39.5/ 37/35 | 46/43.5/40.5/ 38/35 | | |
| Dimensions (H | Dimensions (H×W×D) mm | | | | | 256×84 | 40×840 | • | | | 298×840×840 | | | |
| Machine weig | Machine weight kg | | kg | | 19 | | 24 | 2 | 2 | 25 | | 26 | | |
| Liquid (Flare) | | | | φ e | 6.4 | • | | | <i>∲</i> 9.5 | | • | | | |
| Piping connections | Piping Gas (Flare) | | mm | | <i>\$</i> 1: | 2.7 | | | | \$ 15.9 | | | | |
| | Drain | | | | | | VP25 (Exte | rnal Dia. 32/Inter | nal Dia. 25) | | | | | |

- Note: Specifications are based on the following conditions;

 Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.

 Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.

 Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity indox. (See Engineering Data Book for details.)

 Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.

 During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Decoration Panel (Option)

| Standard | Model | | BYCQ125EEF (Fresh White) / BYCQ125EEK (Black) |
|---------------|-------------------|----|---|
| panel with | Dimensions(H×W×D) | mm | 50×950×950 |
| sensing | Weight | kg | 5.5 |
| | | | |

Function List

| Remote controller | Wired | BRC1E63 | _ |
|---------------------------|--------------|---------|--------------|
| Remote controller | Wireless | _ | BRC7M634F(K) |
| Dual sensors | | 0 | |
| Direct airflow | | 0 | |
| Sensing sensor low mo | ode | 0 | |
| Sensing sensor stop m | node | 0 | |
| Circulation airflow | | 0 | |
| Individual airflow direct | tion control | 0 | |
| Switchable 5 step fan | speed | 0 | 0 |
| Auto airflow rate | | 0 | 0 |
| Auto swing | | 0 | 0 |
| Swing pattern selection | n | 0 | 0 |
| High ceiling application | n | 0 | |

FXFSQ-A

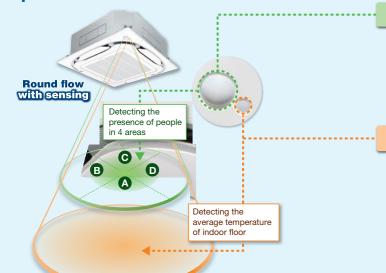
Ceiling Mounted Cassette (Round Flow with Sensing) Type

Daikin Advanced Sensing Functions¹

Dual sensors*1

*1. Applicable when wired remote controller BRC1E63 is use

Dual sensors and individual airflow direction control automatically provide optimal control of airflow.



Infrared presence sensor

The 4 sensors detect human presence.

| Ceiling height | 2.7m | 3.5m | 4.0m |
|-----------------|---------|---------|---------|
| Detection range | approx. | approx. | approx. |
| (diameter)*2 | 8.5m | 11.5m | 13.5m |

*2. The infrared presence sensor detects 80 cm above the floor.

Infrared floor sensor

reduced in plac

The sensor detects the floor temperature and automatically adjusts operation of the indoor unit to reduce the temperature difference between the ceiling and the floor.

| Ceiling height | 2.7m | 3.5m | 4.0m |
|-----------------|---------|---------|---------|
| Detection range | approx. | approx. | approx. |
| (diameter)*3 | 11m | 14m | 16m |

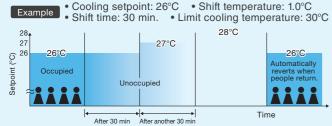
*3. The infrared floor sensor detects at the floor surface

Sensing sensor functions*4*5

Sensing sensor low mode (default: OFF)

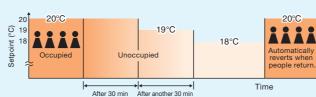
When there are no people in a room, the set temperature is shifted automatically.

The system automatically saves energy by detecting whether or not the room is occupied. The set temperature is shifted automatically if the room is unoccupied.



0°C Examp

• Heating setpoint: 20°C • Shift temperature: 1.0°C • Shift time: 30 min. • Limit heating temperature: 16°C



If people do not return, the air conditioner will raise the temperature 1°C every 30 minutes and then operate at 30°C.

If people do not return, the air conditioner will lower the temperature 1°C every 30 minutes and then operate at 16°C.

Shift temperature and time can be selected from 0.5 to 4°C in 0.5°C increments and 15, 30, 45, 60, 90 or 120 minutes respectively with remote controller.

Sensing sensor stop mode (default: OFF)

When there are no people in a room, the system stops automatically.*6*7

The system automatically saves energy by detecting whether or not the room is occupied. Based on preset user conditions, the system automatically stops operation if the room is unoccupied.

Absent stop time can be selected from 1 to 24 hrs in 1 hr increments with remote controller.

- *4. These functions are not available when using the group control system
- *5. User can set these functions with remote controller
- *6. Please note that upon re-entering the room, air conditioner will not switch on automatically
- *7. To protect the machine, the standby system may operate temporarily



Auto airflow function*8

Direct Airflow Cooling

Drv

When human presence detected.

Optimal air direction by "Auto"

- With Auto airflow direction mode, flaps are controlled to deliver optimal airflow when the room is unoccupied.
 - When human is detected, air direction is set to "Swing (narrow)" to deliver cool air to users.

*8. Airflow direction shoud be set to "Auto".

■ Draft prevention function (default: OFF) Heating



When human presence detected.

Blown downward

 With Auto airflow direction mode, flaps are controlled to deliver optimal airflow when the room is unoccupied.

 When human is detected, drafts are prevented by making the flap horizontal

• When human is not detected for 5 minutes, the unit automatically returns to controlling the flaps for an unoccupied room.

Comfort and energy saving preventing over cooling/heating*9

 Airflow direction and airflow rate should be set to "Auto".

Floor temperature is detected and over cooling prevented. Cooling





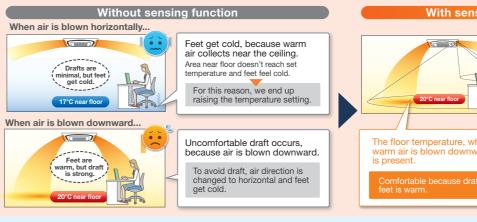
The floor temperature, which is lower than near the ceiling, is detected.

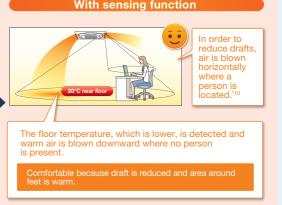
Automatic control using the temperature near the person as the room temperature.

Energy

The temperature near the person is automatically calculated by detecting the temperature of the floor. Energy is saved, because the area around the feet does not get too cold.

Feet are kept warm and comfortable while reducing uncomfortable drafts. Heating





Energ

The tendency of people to raise the temperature too much is prevented, because you are warmed up from the feet

To increase comfort, Auto airflow rate mode controls the airflow in accordance with the difference between floor and ceiling temperatures. When there is a large difference between the ceiling and floor temperatures, the airflow rate is automatically increased. When the difference becomes small, the airflow rate is automatically reduced.

*10. Draft prevention function is set OFF in the initial setting.

FXFSQ-A

When the target temperature is reached, normal

operation

(all-round flow)

Circulation Airflow^{1,2}

*1. Applicable when wired remote controller BRC1F63 is used. *2. Not applicable when using individual airflow direction control.

Cooling



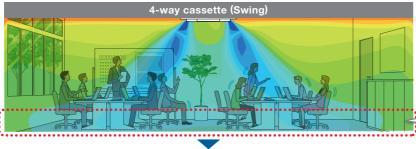
Heating

Ceiling Mounted Cassette (Round Flow with Sensing) Type



CoolingHeatingComfort to the entire room with even temperatures and no cold air pockets at floor level

Cooling



Width 7.5m x depth 7.5m x height 2.6m

■ Indoor unit capacity:71 class Outdoor air temperature:35°C
Airflow rate and air direction:

Areas at floor level are cold while areas around walls are hot.



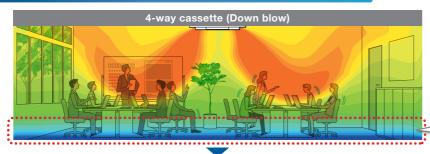
Approx. 5% energy savings by reducing uneven temperatures

*3.Calculated under the following comparison conditions:
When the average temperature at a height of 0.6m above the floor reaches set temperature. (26°C)

> Full comfort is provided with no cold feet.

Entire room evenly comfortable: warmth reaches feet

Heating



Comparison Conditions

Width 7.5m x depth 7.5m x height 2.6m

■ Indoor unit capacity:71 class Outdoor air temperature:5C Airflow rate and air direction high / Down blow

Areas around walls and feet are cold.



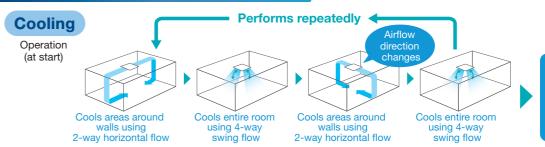
Approx. 15% energy savings by reducing uneven temperatures

*4.Calculated under the following When the average temperature at a height of 0.6m above the floor reaches set temperature. (22°C)

Areas around walls and feet are warm.

Configurations of Circulation Airflow

Note: Results may vary depending on equipment conditions.

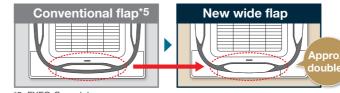


Heating Operation (at start) When the target reached, norma operation (all-round flow) Warms the middle Warms areas around Warms areas around 2-way horizontal flow

Three Technologies That Achieved Circulation Airflow



With new, larger flaps, a straighter trajectory for airflow was achieved.



5. FXFQ-S model

New wide flap construction inhibits ceiling dirt and grime. By tapering both flap ends, the airflow that causes dirty ceilings is directed downward.

Optimizing airflow angle (Horizontally)

The airflow angle was made more horizontal.





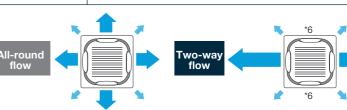
A more horizontal 20° flow is realized.

3 Increased velocity in

2-way flow (Strongly)

Velocity increased by making 2-way flow. Powerful airflow was realized.

*6.Other 2 outlets are controlled by changing the flap direction (angle) to suppress airflow volume.



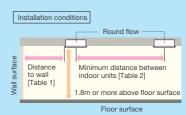
Things to remember when using circulation airflow

Main points for use

• Effectiveness may differ according to room conditions, room size, and distance to walls.

Circulation airflow functions during connection with wired remote controller (BRC1E63). However, use is not possible for the following conditions:

- When a sealing material of air discharge outlet and branch ducts are used;
- When individual airflow setting is selected;
- When using group control other than round flow.



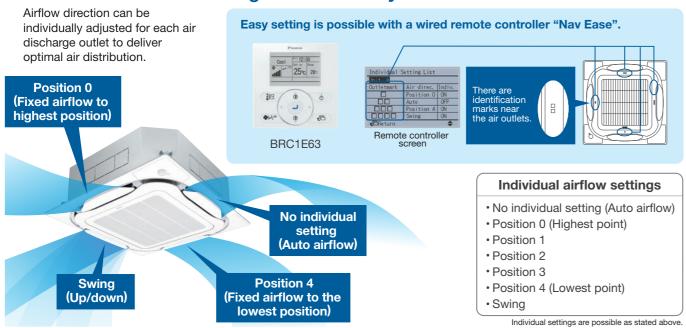
| [Table 1] Distance to wall from indoor unit | | | | | | | | | |
|--|----------------|----------------|------------------|--|--|--|--|--|--|
| Indoor unit capacity | FXFSQ 25-50 | FXFSQ 63/80 | FXFSQ 100-140 | | | | | | |
| Distance range | 1.5m-4m | 1.5m-5m | 1.5m-7m | | | | | | |
| [Toble 2] | T-61-03 | | | | | | | | |

| range | | | | |
|--------------------------|----------------|----------------|------------------|--|
| [Table 2] Minimum dis | stance between | indoor units | | |
| Indoor unit capacity | FXFSQ 25-50 | FXFSQ 63/80 | FXFSQ 100-140 | |
| Minimum | 4m or more | 5m or more | 7m or mor | |

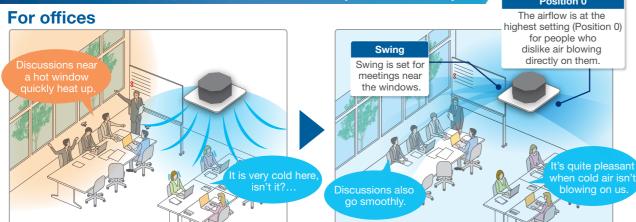
Ceiling Mounted Cassette (Round Flow with Sensing) Type

Individual Airflow Direction Control^{*1}

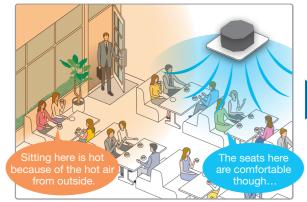
Comfortable air conditioning for all room layouts and conditions

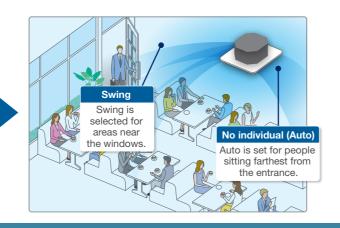


When individual airflow is selected, airflow direction can be adjusted to room layout.



For shops and restaurant





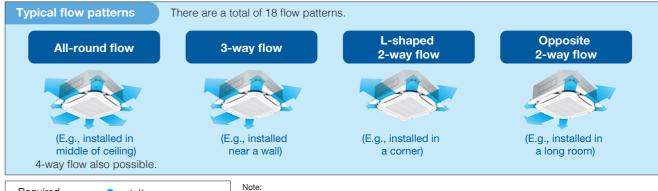
Other Functions

Comfort

360° Airflow & Selectable Airflow Pattern

* 200mm for come

Indoor unit offers 360° airflow discharges air in all directions with more uniform temperature distribution. Because air flows out from corner outlets, comfort spreads more widely.



Required distance to wall surface for closing air discharge outlet

- Whatever the discharge direction, the same type of panel is used. If installing for other than all-round flow, an air discharge outlet sealing material (option) must be used to close each unused outlet.

- Operation sound increases when using 2-way or 3-way flow.

Optimal comfort and convenience assured by 3 air discharge modes

| Air direction | Standard setting ¹ | Draft prevention setting (field setting) | Ceiling soiling prevention setting ² (field setting) | | |
|-------------------------------|-------------------------------|---|--|--|--|
| Desired situation | For gentle drafts. | When drafts are unwanted. | For shops with light coloured ceilings that must be kept spotless. | | |
| Auto-swing | | | | | |
| 5-level air direction setting | | | | | |
| Auto air direction control | | The air direction is set automatically position of the previous air direction | | | |

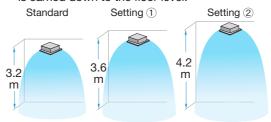
¹Air direction is set to the standard position when the unit is shipped from the factory. The position can be changed from the remote ²Closing of the corner discharge outlets is

Switchable fan speed: 5 steps and Auto

Control of airflow rate has been improved from 3-step to 5-step. Auto airflow rate is newly available.

Suitable for high ceilings

Even in spaces with high ceilings, a comfortable airflow is carried down to the floor level.



When all round flow is selected, ceilings up to 4.2 m in height can be accommodated. (FXFSQ100-140A)

■Criteria for ceiling height and number of air discharge outlets (Ceiling height is reference value)

| | | Number of air discharge outlets used | | | | | | | |
|---------|----------------|--------------------------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|
| | | FXFSQ25-80A | | | | FXFSQ100-140A | | | |
| | | All round flow | 4-way flow | 3-way flow | 2-way flow | All round flow | 4-way flow | 3-way flow | 2-way flow |
| 0 ::: | Standard | 2.7 m | 3.1 m | 3.0 m | 3.5 m | 3.2 m | 3.4 m | 3.6 m | 4.2 m |
| Ceiling | High ceiling 1 | 3.0 m | 3.4 m | 3.3 m | 3.8 m | 3.6 m | 3.9 m | 4.0 m | 4.2 m |
| noigni | High ceiling 2 | 3.5 m | 4.0 m | 3.5 m | _ | 4.2 m | 4.5 m | 4.2 m | |

- Factory settings are for standard ceiling height and all-round flow
- High ceiling settings (1) and (2) are set with the remote controller by field setting.
- · High-efficiency filters are not available for high ceiling applications.

Indoor Unit Lineup

Ceiling Mounted Cassette (Round Flow with Sensing) Type

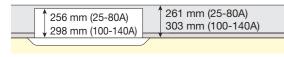
FXFSQ-A

Quick and Easy Installation

Lightweight

All models can be installed without using a lifter.

Installable in tight ceiling spaces



Easy removal of corner cover

It is possible to easily remove without use of screws or tools.



Easy height adjustment

Each corner of the unit has an adjuster pocket that lets you easily adjust the unit's suspended height.

If the wireless remote controller is installed. a signal receiver unit is housed in one of the adjuster pockets

Temporary placement

Because the control box lid can be temporarily hung

on the unit, there is no need to climb down the

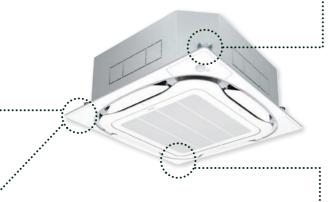
of control box lid

stepladder to retrieve it.

Easy hanging

Washer fixing plates secure washers in place and prevent washers from falling for easy installation.





Ease in temporary hanging of decoration panel

In addition to the temporary hanging fixtures in 2 places normally used, corner part mounting fixtures in 4 places are provided.



Drain pump

Equipped as standard accessory with 850 mm lift.



Transparent drain socket



Installed in any direction

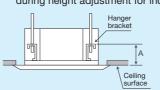
Since the orientation of the suction grille can be adjusted after installing, the direction of the suction grille lines can be unified when multiple units are installed.

The detached lid can



Hanging height adjustment

Because the configuration of the hanger bracket changed, the dimensions from the ceiling to the hanger bracket also change during height adjustment for indoor unit.



| | A Dimensions | | |
|---|--------------------|--|--|
| Standard panel | 125-130mm | | |
| Chamber option*+ standard panel | 175-180mm | | |
| *High-efficiency filter, ultra long fresh air intake | g-life filter, and | | |

Easy Maintenance

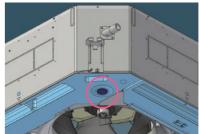
Drain pan and drain water check

The condition of the drain pan and drain water can be checked by removing the suction grille and drain plug.



24 mm diameter drain outlet

The drain outlet allows insertion of a finger or dental mirror for inspection of the internal cleanliness of the drain pan. Removal of the suction panel enables access.



Ultra long-life filter (option)

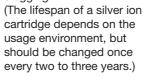
See page 190

Maintenance is not required in normal shops or offices for up to four years.

Cleanliness

Silver ion anti-bacterial drain pan

A built-in antibacterial treatment that uses silver ion in the drain pan prevents the growth of slime, bacteria, and mould that cause odours and clogging.







Non-flocking flaps

Flaps can be detached without use of tools. Condensation does not easily form and dirt does not cling to non-flocking flaps. They are easy to clean.



Filter has anti-mould and antibacterial treatment

Prevents mould and microorganisms growing out of the dust and moisture that adheres to the filters

Ceiling Mounted Cassette (Round Flow) Type

FXFQ-P

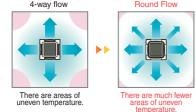
360° airflow improves temperature distribution and offers a comfortable

living environment.



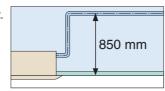
● The industry's first* Round Flow Ceiling Mounted Cassette type offers 360° airflow with improved temperature distribution.

* As of April 2004, the release date for Japan.

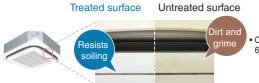


• The light weight unit at 19.5 kg for FXFQ25-50P models makes installation easy

Drain pump is equipped as a standard accessory with a 850 mm lift.



• A modern sophisticated decoration panel has been applied, with a panel surface that has been treated with a dirt-repellant coating.

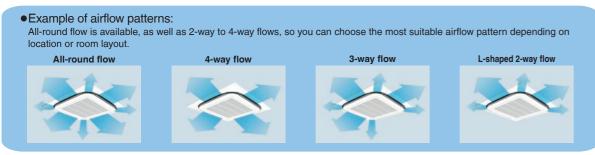


Condition after exposure to the smoke of 600 cigarettes in 1 m3 enclosed space.

- Control of the airflow rate can be selected from 3-step control.
- •The horizontal louvres prevent dew condensation. Their non-flocking surfaces, which repel dirt, are easy to clean.
- An antibacterial treatment that uses silver ions has been applied to the drain pan, preventing the growth of slime, mould and bacteria that cause blockages and odours. (The lifespan of a silver ion cartridge depends on the usage environment, but should be changed once every two to three years.)



• The air filter has an anti-mould and antibacterial treatment that prevents the growth of mould generated from dust or moisture that may adhere to the filter.



Note: Whatever the discharge direction, the same type of panel is used. If installing for other than all-round flow, an air discharge outlet sealing material (option) must be used to close each unused outlet.

Specifications

| | MODEL | | | FXFQ25PVE | FXFQ32PVE | FXFQ40PVE | FXFQ50PVE | FXFQ63PVE | FXFQ80PVE | FXFQ100PVE | FXFQ125PVE |
|--------------------|--------------|--------|--------|--|-------------|-------------|-------------|--------------|-------------|-------------|-------------|
| Power supply | | | | 1-phase, 220-240 V/220 V, 50/60 Hz | | | | | | | |
| Cooling capac | sit., | | Btu/h | 9,600 | 12,300 | 15,400 | 19,100 | 24,200 | 30,700 | 38,200 | 47,800 |
| Cooling capac | лгу | | kW | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 9.0 | 11.2 | 14.0 |
| Heating capac | aanaait. | | Btu/h | 10,900 | 13,600 | 17,100 | 21,500 | 27,300 | 34,100 | 42,700 | 54,600 |
| rieating capac | лгу | | kW | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | 10.0 | 12.5 | 16.0 |
| Power consum | Co | ooling | kW | 0.0 |)33 | 0.047 | 0.052 | 0.066 | 0.093 | 0.187 | 0.209 |
| rower consum | He | eating | kW | 0.0 |)27 | 0.034 | 0.038 | 0.053 | 0.075 | 0.174 | 0.200 |
| Casing | | | | | | | Galvanised | steel plate | | | |
| Airflow rate (H | IL/L/I \ | | ℓ/s | 216/191/166 | | 250/216/183 | 266/225/183 | 316/275/225 | 350/300/250 | 533/433/333 | 550/466/375 |
| Allilow fale (F | In/n/L) | | m³/min | 13/11.5/10 | | 15/13/11 | 16/13.5/11 | 19/16.5/13.5 | 21/18/15 | 32/26/20 | 33/28/22.5 |
| Sound level (H | HH/H/L) | | dB(A) | 30/28.5/27 | | 31/29/27 | 32/29.5/27 | 34/31/28 | 36/33.5/31 | 43/37.5/32 | 44/39/34 |
| Sound power | (HH/H/L) | | dB(A) | 48/46.5/45 | | 49/47/45 | 50/47.5/45 | 52/49/46 | 53/51.5/49 | 60/54.5/50 | 61/56/52 |
| Dimensions (H | H×W×D) | | mm | 246×840×840 288×840×840 | | | | | | | 340×840 |
| Machine weig | ht | | kg | | 19 | 9.5 | | | 22 25 | | |
| D: . : | Liquid (F | lare) | | | ∮ 6 | .4 | | φ9.5 | | | |
| Piping connections | Gas (Fla | re) | mm | | <i>φ</i> 12 | 2.7 | | | <i>φ</i> 1 | 5.9 | |
| 00111100110110 | Drain | | | VP25 (External Dia. 32/Internal Dia. 25) | | | | | | | |
| Model | | | | BYCP125K-W1 | | | | | | | |
| Panel Colour | | | | | | Fresh | white | | | | |
| (Option) | Dimensions(H | HxWxD) | mm | | | | 50X95 | 0X950 | | | |
| | Weight | | kg | | | | 5 | .5 | | · | · |

Specifications are based on the following conditions;
 Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
 Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
 Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
 Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.

During actual operation, these values are normally somewhat higher as a result of ambient conditions

Indoor Unit Lineup

Ceiling Mounted Cassette (Compact Multi Flow) Type

FXZQ-A2

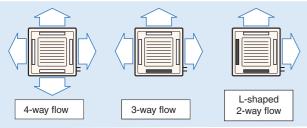
Quiet, compact, and designed for user comfort



•The newly designed panel integrates fully within one ceiling tile enabling lights, speakers and sprinklers to be installed in the adjoining ceiling tiles.

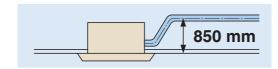


•2-, 3-, and 4-way airflow patterns are available, enabling installation in the corner of a room



*For 3-way or 2-way flow installation, the sealing material for air discharge outlet

- Dimensions correspond with 600 mm X 600 mm architectural module ceiling design specifications.
- Drain pump is equipped as standard accessory with



•An optional presence and floor sensor kit (BRYQ60A2W) can be fitted to the cassette for draught prevention, energy saving operation and to avoid temperature stratification during heating.



Specifications

| | MODE | L | | FXZQ20A2VEB | FXZQ25A2VEB | FXZQ32A2VEB | FXZQ40A2VEB | FXZQ50A2VEB | | | |
|----------------------|-------------------|-----------|--------|---|------------------------|---------------------------|-------------|--------------|--|--|--|
| Power supply | | | | 1-phase, 220-240 V/220 V, 50/60 Hz | | | | | | | |
| Cooling conce | si+s,, | | Btu/h | 7,500 | 9,600 | 12,300 | 15,400 | 19,100 | | | |
| Cooling capac | шу | | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | | | |
| Heating capac | oity. | | Btu/h | 8,500 | 10,900 | 13,600 | 17,100 | 21,500 | | | |
| rieating capac | lty | | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | | | |
| Power consum | nntion | Cooling | kW | 0.0 |)43 | 0.045 | 0.059 | 0.092 | | | |
| rower consum | iption [| Heating | kW | 0.0 |)36 | 0.038 | 0.053 | 0.086 | | | |
| Casing | | | | | Galvanised steel plate | | | | | | |
| Airflow rate (H/M/L) | | | ℓ/s | 145/125/108 | 150/133/108 | 167/142/117 | 192/158/133 | 242/208/167 | | | |
| Allilow rate (F | I/IVI/ ∟) | | m³/min | 8.7/7.5/6.5 9/8/6.5 | | 10/8.5/7 | 11.5/9.5/8 | 14.5/12.5/10 | | | |
| Sound level (H | H/M/L) | | dB(A) | 32/29.5/25.5 | 33/30/25.5 | 33.5/30/26 | 37/32/28 | 43/40/33 | | | |
| Sound power | (H) | | dB(A) | 49 | 50 | 51 | 54 | 60 | | | |
| Dimensions (H | H×W×D) | | mm | 260×575×575 (For depth add 63mm for electrical box) | | | | | | | |
| Machine weig | ht | | kg | 15 | 5.5 | 16 | 6.5 | 18.5 | | | |
| | Liquid | (Flare) | | | | φ6.4 | | • | | | |
| Piping connections | Gas (F | -lare) | mm | | | <i>ϕ</i> 12.7 | | | | | |
| COMMODITION | Drain | | | | VP20 (| External Dia. 26/Internal | Dia. 20) | | | | |
| | Model | | | | BYFQ60C2W1W | | | | | | |
| Panel | Colour | r | | White (N9.5) | | | | | | | |
| (Option) | Dimension | ns(H×W×D) | mm | | | 46x620x620 | | | | | |
| | Weigh | t | kg | | | 2.8 | | | | | |

Note: Specifications are based on the following conditions;

•Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.

*Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.

*Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)

*Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.

During actual operation, these values are normally somewhat higher as a result of ambient conditions

4-way Flow Ceiling Suspended Type

FXUQ-A

This slim and stylish indoor unit achieves optimum air distribution, and can be installed without the need for ceiling cavity.

- Unit body and suction panel adopted round shapes and realised a slim appearance design. The unit can be used for various locations such as the ceilings with no cavity and bare ceilings.
- Flaps close automatically when the unit stops, which gives a simple appearance.
- Unified slim height of 198 mm for all models that gives the unified impression even when models with different capacities are installed in the same area.
- With adoption of the individual flap control, airflow direction adjustment can be individually set for each air outlet. 5 directions of airflow and auto-swing can be selected with wired remote controller BRC1E63, which realises the optimum air distribution.



• Control of the airflow rate has been improved from 2-step to 3-step control. Auto airflow rate control can be selected with wired remote controller BRC1E63.



• Built-in electronic expansion valve eliminates the need for a BEV unit, which improves flexibility of installation.



- Energy efficiency has been improved thanks to the adoption of a new heat exchanger with smaller tubes, DC fan motor and DC drain pump motor.
- Drain pump is equipped as a standard accessory, and the lift height has been improved from 500 mm to 600 mm.
- Depending on installation site requirements or room conditions, 2-way, 3-way and 4-way discharge patterns are available.



• An antibacterial treatment that uses silver ions has been applied to the drain pan, preventing the growth of slime, mould and bacteria that cause blockages and odours.

(The lifespan of a silver ion cartridge depends on the usage environment, but should be changed once every two to three years.)

Specifications

| I | MODEL | | FXUQ71AVEB | FXUQ100AVEB | | | | |
|---------------------|----------------|--------|--|---------------------|--|--|--|--|
| Power supply | | | 1-phase, 220-240 V/220-230 V, 50/60 Hz | | | | | |
| Cooling capaci | 7/ | Btu/h | 27,300 | 38,200 | | | | |
| Occining capaci | .y | kW | 8.0 | 11.2 | | | | |
| Heating capaci | h/ | Btu/h | 30,700 | 42,700 | | | | |
| ricating capaci | .y | kW | 9.0 | 12.5 | | | | |
| Power consump | Cooling | kW | 0.090 | 0.200 | | | | |
| Power consum | Heating | kW | 0.073 | 0.179 | | | | |
| Casing | | | Fresh white | | | | | |
| Airflow rate (H/ | (4/1) | ℓ/s | 375/325/267 | 517/433/350 | | | | |
| All llow rate (11/1 | VI/ L) | m³/min | 22.5/19.5/16 | 31/26/21 | | | | |
| Sound level (H/ | M/L) | dB(A) | 40/38/36 | 47/44/40 | | | | |
| Sound power (I | H/M/L) | dB(A) | 58/56/54 | 65/62/58 | | | | |
| Dimensions (H) | (W×D) | mm | 198×950 | ×950 | | | | |
| Machine weigh | t | kg | 26 | 27 | | | | |
| ь | Liquid (Flare) | | φ9.5 | | | | | |
| Piping connections | Gas (Flare) | mm | φ15.9 |) | | | | |
| | Drain | | VP20 (External Dia. 2 | 6/Internal Dia. 20) | | | | |

Note: Specifications are based on the following conditions:

Specifications are based on the following conditions;

•Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.

•Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.

•Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)

•Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.

During actual operation, these values are normally somewhat higher as a result of ambient conditions

Ceiling Mounted Cassette (Double Flow) Type

New FXCQ-A

Stylish unit blends easily with any interior. Integrated ceiling surface with sophisticated panel design with the adoption of flat flap.

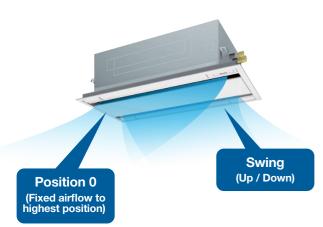


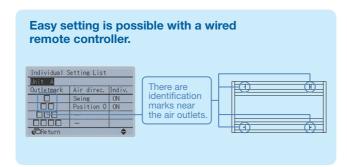
New panel design

- •This model features a stylish flat panel with fresh white colour for a new sophisticated appearance.
- The flat flaps close entirely when the unit is not operating and there are no air intake grilles visible.

Individual Airflow Direction Control *1

- Airfow direction can be individually adjusted for each air discharge outlet to deliver optimal air distribution.
- *1. Applicable when wired remote controller BRC1E63 is used.





Individual airflow settings

- No individual setting (Auto airflow) Position 0 (Highest point) • Position 1 • Position 2 Position 3
- Position 4 (Lowest point) Swing

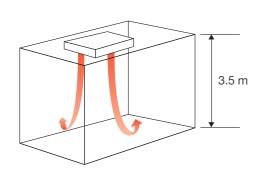
Individual settings are possible as stated above.

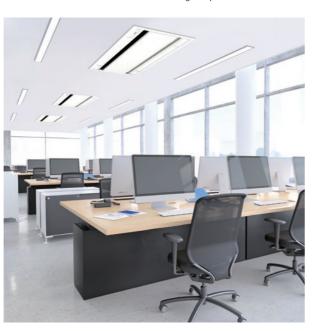
Switchable fan speed: 5 steps and Auto

• Control of airflow rate has been improved from 3-step to 5-step. Auto airflow rate is newly available.

Suitable for high ceilings

• Even in spaces with high ceilings maximum 3.5 m, a comfortable airflow is carried down to the floor level.

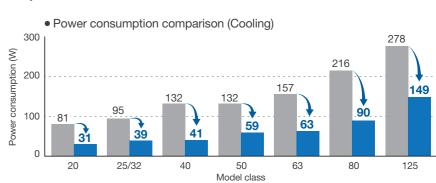




Energy saving: Reduction of energy consumption

 Power consumption is significantly reduced by specially developed small tube heat exchanger and DC fan motor.





Enhanced functions from various aspects such as maintenance

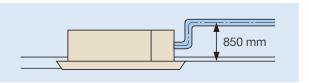
- The flap parts are easy to clean because it is hard to condensate and get dirty.
- Check contamination in drain pan by simply remove suction
- Equipped with long life filter which requires only 1-year maintenance interval.
- Adjuster pockets mount at four corners of the unit enable to adjust the main unit without removing the panel.



 Easy visual inspection of drainage through the transparent body drain socket. Drain socket part



 Drain pump is equipped as standard accessory with 850 mm lift.



 An antibacterial treatment that uses silver ions has been applied to the drain pan, preventing the growth of slime, mould and bacteria that cause blockages and odours. (The lifespan of a silver ion cartridge depends on the usage environment, but should be changed once every two to three years.)



Specifications

| | MOI | DEL | | FXCQ20AVM | FXCQ25AVM | FXCQ32AVM | FXCQ40AVM | FXCQ50AVM | FXCQ63AVM | FXCQ80AVM | FXCQ125AVM | |
|--------------------|------------------|------------|----------------------------|---|--|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|--|
| Power supply | у | | | | 1-phase, 220-240 V/220-230 V, 50/60 Hz | | | | | | | |
| Cooling cond | oit. | | Btu/h | 7,500 | 7,500 9,600 12,300 15,400 | | 19,100 | 24,200 | 30,700 | 47,800 | | |
| Cooling capa | acity | | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 9.0 | 14.0 | |
| Heating capa | ocity | | Btu/h | 8,500 | 10,900 | 13,600 | 17,100 | 21,500 | 27,300 | 34,100 | 54,600 | |
| Treating capa | acity | | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | 10.0 | 16.0 | |
| Power consu | ımntion | Cooling | kW | 0.031 | 0.0 | 39 | 0.041 | 0.059 | 0.063 | 0.090 | 0.149 | |
| 1 Ower consu | inplion | Heating | KVV | 0.028 | 0.0 | 35 | 0.037 | 0.056 | 0.060 | 0.086 | 0.146 | |
| Casing | | | | | | | Galvanised | steel plate | | | | |
| Airflow rate (I | L/LN//N// | ML/L) | ℓ/s | 175/158/150/133/125 192/175/158/142/133 | | 200/183/175/158/142 | 250/233/217/192/175 | 267/250/233/208/192 | 433/400/375/342/308 | 533/492/458/417/375 | | |
| All llow rate (i | 1 1/1 1101/101/1 | IVIL/L) | m³/min | 10.5/9.5/9/8/7.5 | 11.5/10.5 | /9.5/8.5/8 | 12/11/10.5/9.5/8.5 | 15/14/13/11.5/10.5 | 16/15/14/12.5/11.5 | 26/24/22.5/20.5/18.5 | 32/29.5/27.5/25/22.5 | |
| Sound level (| H/HM/M/ | ML/L) | dB(A) | 32/31/30/29/28 | 34/33/31/30/29 | 34/33/32/31/30 | 36/35/33/32/31 | 37/36/35/33/31 | 39/38/37/35/32 | 42/40/38/36/33 | 46/44/42/40/38 | |
| Dimensions (| (H×W×D) | | mm | | 305x77 | 75x620 | | 305x990x620 | | 305x1,445x620 | | |
| Machine wei | ght | | kg | 19 | | | | 22 | 25 | 33 | 38 | |
| Dining | Liquid (| Flare) | | | \$\phi\$ 6.4 | | | | | <i>ϕ</i> 9.5 | | |
| Piping connections | Gas (Fla | are) | mm | | | <i>∲</i> 12.7 | | | φ15.9 | | | |
| Drain | | | | | | VP2 | 5 (External Dia. | 32/Internal Dia | a. 25) | | | |
| | Model | | | | BYBC | Q40CF | | BYBC | Q63CF | BYBCC | Q125CF | |
| Panel | Colour | | Fresh white (6.5Y 9.5/0.5) | | | | | | | | | |
| (Option) | Dimensio | ns (H×W×D) | mm | | 55x1,0 | 70x700 | | 55x1,285x700 | | 55x1,740x700 | | |
| | Weight | | kg | | 1 | 0 | | 1 | 1 | 13 | | |

- Note: Specifications are based on the following conditions;

 •Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.

 •Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.

 •Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)

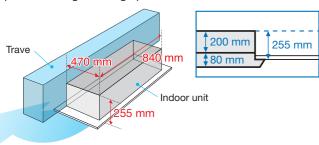
 •Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
 - During actual operation, these values are normally somewhat higher as a result of ambient conditions

Ceiling Mounted Cassette (Single Flow) Type

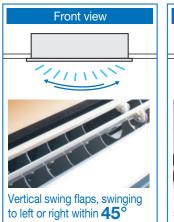
FXEQ-A

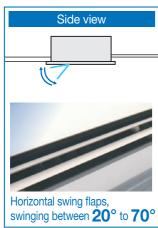
Slim design for flexible installation

•The body features a compact design with a height of just 200 mm and depth 470 mm, making the installation possible in tight ceiling spaces.



•The swinging of horizontal and vertical swing flaps can be adjusted freely with the remote controller, providing 3D airflow to every corner of the room.





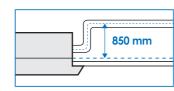
- ●Control of airflow rate can be selected from 5-step control and quiet operation mode, which provides comfortable airflow.
- •DC motor is adopted both in the fan and drain pump of the indoor unit, not only enhancing the energy saving performance, but also reducing the operating sound and the vibration incurred to the unit.
- •While creating a cozy indoor environment, the unit can prevent the suspended ceiling from being soiled by adjusting its louvre angle.



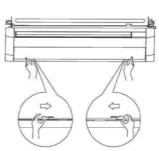
•The novel smooth panel design makes dust difficult to accumulate, thus causing the cleaning more conveniently.



Drain pump is equipped as standard accessory with 850 mm lift.



Servicing of common parts such as the control box etc. can be performed easily only with the suction panel removed.





New Remote Controller (Option)

■ Wireless Remote Controller

- •Stylish new design giving more satisfaction of ownership
- •Comes in white colour
- •User-friendly buttons with new functions such as 2 flaps control, 5-step airflow control, automatic airflow
- •Back light function helps operating in dark rooms





LCD Backlight

The LCD panel lights up during use, making the remote controller easy to handle even in dark.

■ Navigation Remote Controller (Wired Remote Controller)

New functions such as 2 flaps control, 5-step airflow control, automatic airflow can be also adjusted with the new wired remote controller.





Specifications

| Ороо | | | | | | | | | | | |
|--------------------|------------|--------------|------------|---------------------------|-------------------------------------|------------------------|----------------------|-------------------------|--------------------------|--|--|
| MODEL | | FXEQ20AV36 | FXEQ25AV36 | FXEQ32AV36 | FXEQ40AV36 | FXEQ50AV36 | FXEQ63AV36 | | | | |
| Power supply | | | | 1-phase, 220-240 V, 50 Hz | | | | | | | |
| Cooling capacity | | Btu/h | 7,500 | 9,600 | 12,300 | 15,400 | 19,100 | 24,200 | | | |
| Cooling cap | acity | | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | | |
| Heating con | a a i to c | | Btu/h | 8,500 | 10,900 | 13,600 | 17,100 | 21,500 | 27,300 | | |
| Heating cap | acity | | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | | |
| Power | | Cooling | kW | 0.026 | 0.027 | 0.034 | 0.046 | 0.048 | 0.067 | | |
| consumptio | n | Heating | KVV | 0.022 | 0.023 | 0.030 | 0.042 | 0.044 | 0.063 | | |
| Casing | | | | | | Galvanised | steel plate | | | | |
| | | Cooling | ℓ/s | 100/90/82/73/67 | 115/107/97/88/80 | 133/125/117/105/92 | 163/147/130/117/103 | 208/190/173/158/145 | 250/227/203/183/163 | | |
| Airflow rate | | | m³/min | 6.0/5.4/4.9/4.4/4.0 | 6.9/6.4/5.8/5.3/4.8 | 8.0/7.5/7.0/6.3/5.5 | 9.8/8.8/7.8/7.0/6.2 | 12.5/11.4/10.4/9.5/8.7 | 15.0/13.6/12.2/11.0/9.8 | | |
| (H/HM/M/M | L/L) | Heating | ℓ/s | 100/93/85/78/70 | 120/112/102/93/83 | 143/133/123/112/100 | 170/155/140/127/113 | 233/213/193/178/163 | 282/255/227/205/183 | | |
| | | neating | m³/min | 6.0/5.6/5.1/4.7/4.2 | 7.2/6.7/6.1/5.6/5.0 | 8.6/8.0/7.4/6.7/6.0 | 10.2/9.3/8.4/7.6/6.8 | 14.0/12.8/11.6/10.7/9.8 | 16.9/15.3/13.6/12.3/11.0 | | |
| Sound level | | Cooling | -ID(A) | 30/29/28/27/26 | 32/31/30/29/28 | 35/34/33/32/30 | 38/37/35/33/31 | 38/37/35/33/31 | 43/41/39/37/35 | | |
| (H/HM/M/M | L/L) | Heating | dB(A) | 33/31/29/28/26 | 35/33/31/30/28 | 38/36/34/33/31 | 41/39/37/35/33 | 41/39/37/36/34 | 46/44/42/40/38 | | |
| Dimensions | (H×W | /×D) | mm | | 200×84 | | 200×1,240×470 | | | | |
| Machine we | ight | | kg | | 17 | | 18 | 2 | 3 | | |
| | Liqu | id (Flare) | | | | <i>ϕ</i> 6.4 | | | ≠ 9.5 | | |
| Piping connections | Gas | (Flare) | mm | | <i>ϕ</i> 12.7 | | | | | | |
| Drain | | | | | PVC26 (External Dia | . 26/Internal Dia. 20) | | | | | |
| | Mod | el | | | BYEP | BYEP63AW1 | | | | | |
| Panel | Colo | ur | | | | Fresh | white | | | | |
| (Option) | Dimens | sions(H×W×D) | mm | | 80×1,3 | 50×550 | | | | | |
| | Weig | ght | kg | | 80×950×550 80×1,350×550 8.0 10.0 | | | | | | |

Note: Specifications are based on the following conditions:

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
 Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
 Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- . Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.

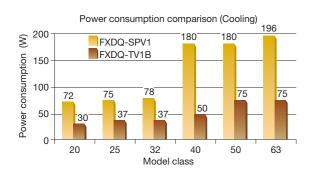
Slim Ceiling Mounted Duct Type (Compact Series)

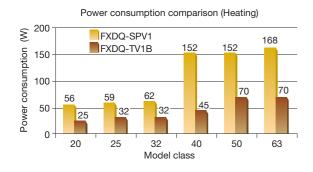
FXDQ-T

Slim and compact design for easy and flexible installation

DC Fan Motor / DC Drain Pump

Adoption of a DC motor for both the fan motor and the drain pump has greatly reduced power consumption and also operation noise.



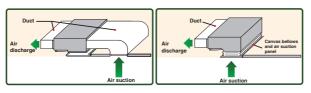




 Slim and compact design with a height of only 200 mm allows for installation in drop ceilings with ceiling voids of as little as 240 mm in height. The depth is also only 450 mm making it suitable for installation in limited spaces such as wardrobes.



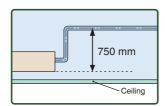
• Features rear or bottom return to suite site constraints.



Air filter included

Clip-on resin net filter attached to the rear of the unit as standard.

• Drain pump is equipped as standard accessory with 750 mm lift.



Auto & 5-step Airflow Control

Airflow rate can be selected from 5 Steps and AUTO airflow mode. AUTO will automatically regulate the airflow rate in accordance to the difference between room temperature and set temperature.



*Wireless remote controller does not have AUTO airflow mode. Use wired remote controller to select AUTO airflow mode

3-D Auto Swing Discharge Grille (Optional Accessory)

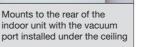
Motorised louvres provide 3-D airflow distribution for improved air circulation. Operations via BRC1E63 with functions including 3-D Auto Swing, Horizontal Auto Swing, Vertical Auto Swing & Fixed Positioning.

| Model | Compatibility | HxWxD (mm) | | |
|----------|---------------|--------------|--|--|
| BDG20A09 | 20-32 Class | 180x722x70 | | |
| BDG20A15 | 40-50 Class | 180x922x70 | | |
| BDG20A20 | 63 Class | 180x1,122x70 | | |

Auto Clean Air Filter Module (Optional Accessory)

A unique rear suction mounted motorised filter cleaning module with included polyester filter for convenient filter maintenance. Scheduled automatic filter cleaning occurs once a week during non operational hours of the indoor unit (set via BRC1E63) to ensure optimal performance and increased energy savings.







Cleaning unit moves across the filter removing dust which is collected in the dust box



emptied by vacuuming out the dust via the vacuum port



| Model | Compatibility | HxWxD (mm) | | |
|-----------|---------------|--------------------------------|--|--|
| BAE20A62 | 20-32 Class | 210x840x188 | | |
| BAE20A82 | 40-50 Class | 210x1,040x188 210x1,240x188 | | |
| BAE20A102 | 63 Class | | | |

Two Series Available

FXDQ-TV1B - Standard Model FXDQ-TV1BA - Features Built-in Multi Tenancy Kit

This kit allows an independent 24V power source to be supplied to the indoor unit PCB in conjunction with 1 phase power from the tenants board. This ensures critical operations, such as oil return are not affected should there be an interruption to the main indoor unit power.

Specifications

| N | IODEL | | FXDQ20TV1B(A) | FXDQ25TV1B(A) | FXDQ32TV1B(A) | FXDQ40TV1B(A) | FXDQ50TV1B(A) | FXDQ63TV1B(A) | |
|-------------------|------------------------------|--------|---------------|------------------------|----------------------|------------------------|---------------|----------------|--|
| Power supply | | | | | 1-phase, 220 | -240 V, 50 Hz | | | |
| 0 | ta. | Btu/h | 7,500 | 9,600 | 12,300 | 15,400 | 19,100 | 24,200 | |
| Cooling capac | city | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | |
| Heating cons | Heating capacity E | | 8,500 | 10,900 | 13,600 | 17,100 | 21,500 | 27,300 | |
| neating capac | ily | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | |
| Power | Cooling |] 134/ | 0.030 | 0.0 | 037 | 0.050 | 0.075 | | |
| consumption | nsumption*1 Heating kW 0.025 | | 0.0 | 032 | 0.045 | 0.070 | | | |
| Casing | | | | Galvanised steel plate | | | | | |
| | | l/s | 135 | 15 | 50 | 210 | 250 | 325 | |
| Airflow rate | | m³/min | 8.1 | 9. | .0 | 12.6 | 15.0 | 19.5 | |
| External station | pressure | Pa | 40- | -10 * 2 | 50-10 * 2 | 60-10*2 | 45- | -10 * 2 | |
| Sound level (H | H/H/L) *1 *3 | dB (A) | 32/30/28 | 33/30 |).5/28 | 34/31.5/29 | 35/32.5/30 | 37/35/33 | |
| Dimensions (H | l x W x D) | mm | | 200×700×450 | | 200×90 | 00×450 | 200×1,100×450 | |
| Machine weight kg | | kg | | 18 | | 2 | 1 | 24 | |
| Liquid (F | | e) | | | <i>ϕ</i> 6.4 | <i>ϕ</i> 6.4 | | | |
| Piping | Gas (Flare) | mm | | | <i>ϕ</i> 12.7 | | | <i>∲</i> 15.9 | |
| connections | Drain | | | | PVC26 (External Dia. | 26 / Internal Dia. 20) | | | |

- Note: Specifications are based on the following conditions;

 •Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 5 m, Level difference: 0 m.

 •Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 5 m, Level difference: 0 m.

 •Capacity of indoor unit is only for reference. Actual capacity of indoor unit is abased on the total capacity index. (See Engineering Data Book for details.)

 •Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
- During actual operation, these values are normally somewhat higher as a result of ambient conditions

- *1: Values are based on external static pressure of 10 Pa. For FXDQ-TV1BA models, +0.0005kW on top of cooling/heating power consumption values.

 *2: External static pressure is changeable to set by the remote controller. This pressure means "High static pressure Standard". (Factory setting is 10 Pa)

 *3: The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).

Slim Ceiling Mounted Duct Type (Standard Series)

FXDQ-PD/ND

Slim design, quietness and static pressure switching

Suitable to use in drop-ceilings!

Indoor Unit Lineup



- Control of the airflow rate can be selected from 3-step control and Auto. Auto airflow rate control can be selected with wired remote controller BRC1E63.
- Low operation sound level.
- External static pressure selectable by remote controller switching make this indoor unit a very comfortable and flexible model
- 10 Pa-30 Pa/factory set: 10 Pa for FXDQ-PD models.
- 15 Pa-44 Pa/factory set: 15 Pa for EXDQ-ND models

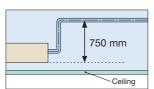




Only 200 mm in height, this model can be installed in rooms with as little as 240 mm in height for the ceiling space between the drop-ceiling and ceiling slab.



Drain pump is equipped as standard accessory with 750



Specifications

| | MODE | L | | FXDQ20PDVE | FXDQ25PDVE | FXDQ32PDVE | FXDQ40NDVE | FXDQ50NDVE | FXDQ63NDVE |
|---------------------------------|------------|--------|-------------|---------------------|-------------|---------------------|----------------------|---------------------|----------------|
| Power supply | | | | | | 1-phase, 220-240 | V/220 V, 50/60 Hz | | |
| Cooling capacity kW | | Btu/h | 7,500 9,600 | | 12,300 | 15,400 | 19,100 | 24,200 | |
| | | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | |
| Heating capacity | | Btu/h | 8,500 | 10,900 | 13,600 | 17,100 | 21,500 | 27,300 | |
| Heating capacity kW | | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | |
| Power consumption to | | kW | 0.0 | 186 | 0.089 | 0.160 | 0.165 | 0.181 | |
| Power consumption *1 Heating kW | | KVV | 0.067 0.070 | | | 0.147 | 0.152 | 0.168 | |
| Casing | | | | | | Galvanised | steel plate | | |
| Airflow roto (LI | U/U/I \ | | ℓ/s | 133/120/106 | | | 175/158/141 | 208/183/166 | 275/241/216 |
| Airflow rate (HI | п/п/L) | | m³/min | | 8.0/7.2/6.4 | | 10.5/9.5/8.5 | 12.5/11.0/10.0 | 16.5/14.5/13.0 |
| External static pr | ressure | | Pa | 30-10 ^{*2} | | | | 44-15* ² | |
| Sound level (HH | I/H/L)*1*3 | | dB(A) | 28/26/23 | | 28/26/24 | 30/28/26 | 33/30/27 | 33/31/29 |
| Sound power (H | H/H/L) | | dB(A) | 56/5 | 4/51 | 56/54/52 | 58/56/54 | 61/58/55 | 61/59/57 |
| Dimensions (H× | W×D) | | mm | | 200×700×620 | | 200×90 | 00×620 | 200×1,100×620 |
| Machine weight | | | kg | | 23 | | 27 | 28 | 31 |
| Liquid (Flare) | | Flare) | | | | <i>ϕ</i> 6.4 | | | <i>∲</i> 9.5 |
| Piping connections | Gas (Fla | are) | mm | | | <i>ϕ</i> 12.7 | | | <i>ϕ</i> 15.9 |
| 001110000110 | Drain | | | | | VP20 (External Dia. | 26/Internal Dia. 20) | | - |

- Note: Specifications are based on the following conditions;

 •Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.

 •Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.

 •Capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for reference.

 - During actual operation, these values are normally somewhat higher as a result of ambient conditions. *1 : Values are based on the following conditions: FXDQ-PD: external static pressure of 10 Pa; FXDQ-ND: external static pressure of 15 Pa.

 - *2 : External static pressure is changeable to set by the remote controller. This pressure means "High static pressure Standard". (Factory setting is 10 Pa for FXDQ-PD models and 15 Pa for FXDQ-ND models.)

 *3 : The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).

Ceiling Concealed (Duct) Type

FXDYQ-MA

High static pressure offers flexible duct design that blends in with any interior décor in stores and offices

- High efficiency Hi-X heat exchanger coils that provide even more energy savings.
- High external static pressure allows comprehensive duct layout for various applications.
- 120 Pa for FXDYQ80MA-145MA
- Design of indoor units allows installation in limited roof spaces.



- Return air spigots included for ease of installation for FXDYQ80MA-145MA models.
- Two external static pressure settings for added flexibility
- Quiet yet powerful supply air fan.
- High strength galvanised steel casing.

Specifications

| | MODEL | | FXDYQ80MAV1 | FXDYQ100MAV1 | FXDYQ125MAV1 | FXDYQ145MAV1 | | | | |
|--------------------|--|--------|---------------------------|--|---------------|--------------|--|--|--|--|
| Power supply | | | 1-phase, 220-240 V, 50 Hz | | | | | | | |
| Cooling consoit | ., | Btu/h | 30,000 | 38,200 | 47,400 | 54,600 | | | | |
| Cooling capacit | у | kW | 8.8 | 11.2 | 13.9 | 16.0 | | | | |
| Heating capacit | Heating capacity Bt k | | 33,800 | 42,700 | 54,600 | 62,800 | | | | |
| rieating capacit | | | 9.9 | 12.5 | 16.0 | 18.4 | | | | |
| Power consumr | ower consumption Cooling kW Heating kW | | 0.415 | 0.700 | 0.780 | 0.880 | | | | |
| rower consump | · Heating | | 0.415 0.700 | | 0.780 | 0.880 | | | | |
| Casing | | | | Galvanised | d steel plate | | | | | |
| Airflow rate (H) | | ℓ/s | 510 | 778 | 852 | 957 | | | | |
| All llow rate (11) | | m³/min | 30.6 | 46.7 | 51.1 | 57.4 | | | | |
| External static p | oressure | Pa | 120 *1 | | | | | | | |
| Sound level (H) | 240 V | dB(A) | 45 | 46 | 48 | 51 | | | | |
| Dimensions (H> | «W×D) | mm | 360×1168×869 | | 360×1478×899 | | | | | |
| Machine weight | | kg | 50 | 60 | 65 | 66 | | | | |
| Dining | Liquid (Flare) | | | ϕ ! | 9.5 | | | | | |
| Piping connections | Gas (Flare) | mm | | <i>∲</i> 1 | 5.9 | | | | | |
| | Drain | | | VP25 (External Dia. 32/Internal Dia. 25) | | | | | | |

Note: Specifications are based on the following conditions:

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.

 Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.

 Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)

- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.

 During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- ★1: External static pressure is changeable to change over the connectors inside electrical box (High static pressure-Standard static pressure). The data above is for high static pressure setting.

Middle Static Pressure Ceiling Mounted Duct Type

FXSQ-PA

Middle static pressure and slim design allow flexible installations

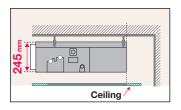


Installation flexibility

Slim design

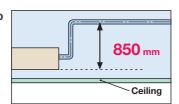
•With a height of only 245 mm, installation is possible even in buildings with narrow ceiling spaces.





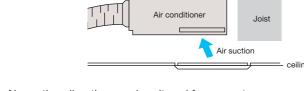
Standard DC drain pump

 DC drain pump is equipped as standard accessory with 850 mm lift.

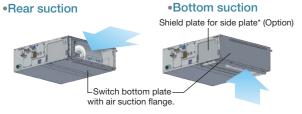


Bottom suction possible

 Bottom suction is possible which facilitate installation and maintenance. Wiring connections and maintenance of control box can be done from under the unit with an optional shield plate for side plate*, extending the degree of freedom for installation in the ceiling.



 Air suction direction can be altered from rear to bottom suction.



*An optional shield plate for side plate is required if wiring connections and maintenance of control box are needed from under the unit. This option is only available for FXSQ20-125PA models.

Design flexibility

Adjustable external static pressure

 Using a DC fan motor, the external static pressure can be controlled within a range of 30 Pa* to 150 Pa.



Comfortable airflow is achieved in accordance with conditions such as duct length.

*30 Pa-150 Pa for FXSQ20-40PAVE 50 Pa-150 Pa for FXSQ50-125PAVE 50 Pa-140 Pa for FXSQ140PAVE

Comfort

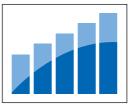
Switchable airflow rate

 Control of the airflow rate can be selected from 3-step control.

Auto airflow rate • 5-step airflow rate is

automatically controlled in accordance with the difference between room temperature and set temperature.

Auto airflow rate control can be selected with wired remote controller BRC1E63.



Low operation sound level

| FXSQ-PAVE | 20/25 | | 32 40 | | 0 50 | | | 63 |
|------------------------|-------------|--|----------|----------|------------|----------|---|----------|
| Sound level (H/M/L) | 33/30/28 34 | | 4/32/30 | 36/33/30 | | 34/32/29 | | 36/32/29 |
| | | | | | | | | |
| FXSQ-PAVE | 80 | | 100 | | | 125 | | 140 |
| Sound level (H/M/L) | 37.5/34/30 | | 39/35/32 | | 42/38.5/35 | | 4 | 43/40/36 |



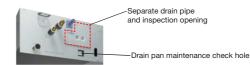
Easy installation

Airflow rate auto adjustment function

 During installation, even if the external static pressure changes due to a change in the duct route, the airflow can be automatically adjusted to within the unit's external static pressure range.

Easy maintenance

 Inspection and cleaning is facilitated by separating the drain pipe and inspection opening and by the drain pan maintenance check hole.



 An antibacterial treatment that uses silver ions has been applied to the drain pan, preventing the growth of slime, mould and bacteria that

(The lifespan of a silver ion cartridge depends on the usage environment, but should be changed once every two to three years.)

cause blockages and odours.



 Airflow rate can be controlled using a remote controller during test operation. It is automatically adjusted to the range between approximately ±10% of the rated H tap airflow.

Specifications

| | MOD | EL | | FXSQ20PAVE | FXSQ25PAVE | FXSQ32PAVE | FXSQ40PAVE | FXSQ50PAVE | | |
|------------------------------|-----------------------|--------|-------------|-------------|------------------------------------|----------------------|--------------|---------------|--|--|
| Power sup | ply | | | | 1-phase, 220-240 V/220 V, 50/60 Hz | | | | | |
| Cooling capacity B | | Btu/h | 7,500 9,600 | | 12,300 | 15,400 | 19,100 | | | |
| Cooling capacity | | | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | | |
| Heating capacity | | Btu/h | 8,500 | 10,900 | 13,600 | 17,100 | 21,500 | | | |
| Heating capacity | | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | | | |
| Cooling kW | | kW | 0.05 | 8 *1 | 0.066 * 1 | 0.101 *1 | 0.075 * 1 | | | |
| Power consumption Heating kW | | kW | 0.05 | 3 *1 | 0.061 *1 | 0.096*1 | 0.070 *1 | | | |
| Casing | | | | | Galvanised steel plate | | | | | |
| A: | | ℓ/s | 150/125/108 | | 158/133/116 | 250/208/175 | 283/242/192 | | | |
| Airflow rate (H/M/L) | | /I/L) | m³/min | 9/7.5 | 5/6.5 | 9.5/8/7 | 15/12.5/10.5 | 17/14.5/11.5 | | |
| External st | atic pr | essure | Pa | | 50-150 (50) *2 | | | | | |
| Sound leve | el (H/M/ | /L) | dB(A) | 33/30/28 | | 34/32/30 | 36/33/30 | 34/32/29 | | |
| Sound pow | ver (H) | | dB(A) | 6 | 1 | 62 | 64 | 62 | | |
| Dimension | Dimensions (H×W×D) mm | | mm | 245×550×800 | | | 245×700×800 | 245×1,000×800 | | |
| Machine weight kg | | | 35 | | | | | | | |
| Liquid (Flare) | | φ 6.4 | | | | | | | | |
| Piping Gas (Flare) | | mm | | | φ 12.7 | | | | | |
| | Drain | | | | VP25 (Exte | ernal Dia. 32/Interr | nal Dia. 25) | | | |

| | MODEL | | FXSQ63PAVE | FXSQ80PAVE | FXSQ100PAVE | FXSQ125PAVE | FXSQ140PAVE | | |
|----------------------|----------------------------|--------|--|-------------|----------------------|-------------|---------------|--|--|
| Power sup | ply | | 1-phase, 220-240 V/220 V, 50/60 Hz | | | | | | |
| Caalina as | nacit. | Btu/h | 24,200 | 30,700 | 38,200 | 47,800 | 54,600 | | |
| Cooling ca | араспу | kW | 7.1 | 9.0 | 11.2 | 14.0 | 16.0 | | |
| Heating of | nooity | Btu/h | 27,300 | 34,100 | 42,700 | 54,600 | 61,400 | | |
| Heating ca | араспу | kW | 8.0 | 10.0 | 12.5 | 16.0 | 18.0 | | |
| Power const | wer consumption Cooling kW | | 0.106 *1 | 0.126 *1 | 0.151*1 | 0.206 *1 | 0.222 *1 | | |
| 1 OWGI GOIISC | Heating kW | | 0.101 *1 | | 0.217 *1 | | | | |
| Casing | | | Galvanised steel plate | | | | | | |
| Airflow rate (H/M/L) | | ℓ/s | 350/292/242 | 383/325/267 | 533/450/375 | 617/525/433 | 650/558/467 | | |
| Allilowia | te (i i/ivi/L) | m³/min | 21/17.5/14.5 | 23/19.5/16 | 32/27/22.5 | 37/31.5/26 | 39/33.5/28 | | |
| External st | atic pressure | Pa | 50-150 (50)* ² 50-140 (50)* | | | | | | |
| Sound leve | el (H/M/L) | dB(A) | 36/32/29 | 37.5/34/30 | 39/35/32 | 42/38.5/35 | 43/40/36 | | |
| Sound pov | ver (H) | dB(A) | 64 | 65.5 | 67 | 70 | 71 | | |
| Dimension | ns (H×W×D) | mm | 245×1,0 | 000×800 | 245×1,4 | 400×800 | 245×1,550×800 | | |
| Machine v | veight | kg | 35 | 37 | 46 | 47 | 52 | | |
| | Liquid (Flare) | | | | <i>∲</i> 9.5 | | | | |
| Piping connections | Gas (Flare) | mm | | | φ 15.9 | | | | |
| | Drain | | | VP25 (Ext | ernal Dia. 32/Intern | al Dia. 25) | | | |

Note: Specifications are based on the following conditions;

•Cooling: Indoor temp.: 27°CDB, 19°CWB,
Outdoor temp.: 35°CDB, Equivalent piping
length: 7.5 m, Level difference: 0 m.

•Heating: Indoor temp.: 20°CDB,
Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping
length: 7.5 m, Level difference: 0 m.

•Capacity of indoor unit is only for reference. Actual
capacity of indoor unit is based on the total
capacity index. (See Engineering Data Book for
details.)

•Sound level: Anechoic chamber conversion value,

During actual operation, these values are normally somewhat higher as a result of ambient conditions.

measured at a point 1.5 m downward from the

*1: Power consumption values are based on conditions of rated external static pressure

unit centre.

*2: External static pressure can be modified using a remote controller that offers thirteen (FXSQ20-40PA), eleven (FXSQ50-125PA) or ten (FXSQ140PA) levels of control. These values indicate the lowest and highest possible static pressures. The rated static pressure is 50 Pa.

Ceiling Mounted Duct Type

FXMQ-P(A)

Middle and high static pressure allows for flexible duct design

FXMQ20PA / FXMQ25PA / FXMQ32PA / FXMQ40PA FXMQ50PA / FXMQ63PA / FXMQ80PA / FXMQ100PA FXMQ125PA / FXMQ140PA

FXMQ160P / FXMQ180P / FXMQ200P FXMQ250P

•Each model is fitted with a high efficiency DC fan motor with adjustable external static pressure to suit your duct design. The available ranges for each model are listed below:

30 Pa - 100 Pa for FXMQ20PA-32PA

30 Pa - 160 Pa for FXMQ40PA

50 Pa - 200 Pa for FXMQ50PA-125PA

50 Pa - 140 Pa for FXMQ140PA 60 Pa – 217 Pa for FXMQ160P

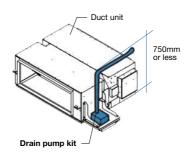
50 Pa - 210 Pa for FXMQ180P

50 Pa - 250 Pa for FXMQ200P-250P

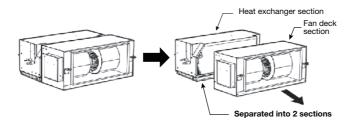
- •The adopted DC fan motor is much more energy efficient than a conventional AC motor, yielding an approximate 20% decreased in energy consumption (FXMQ125PA).
- •FXMQ20PA-140PA models are only 300mm in height making it ideal for use in modern commercial and medium density apartment development where ceiling spaces are tight.
- •Control of the airflow rate can be selected from 3-step control and Auto. Auto airflow rate control can be selected with wired remote controller BRC1E63 for FXMQ20PA-140PA models.



•A built-in drain pump with 700mm lift is equipped as a standard accessory for FXMQ20PA-140PA models. For FXMQ160P-250P models, a 750mm drain pump kit is available as an optional



- Automatic Airflow Adjustment feature allows the fan speed to adjust automatically to suit your duct design during commissioning, simplifying the process and saving time. The airflow is adjusted to a range between ±10% of the model's rated airflow.
- •To facilitate installation, the FXMQ160P-250P models can be separated into 2 sections for convenient handling and easier installation through openings in the



Specifications

| M | DDEL | | FXMQ20PAVE | FXMQ25PAVE | FXMQ32PAVE | FXMQ40PAVE | FXMQ50PAVE | | |
|-------------------------------|------------------|--------|------------------------------------|-------------|---------------------------|--------------|---------------|--|--|
| Power supply | | | 1-phase, 220-240 V/220 V, 50/60 Hz | | | | | | |
| Cooling capacity | | Btu/h | 7,500 | 9,600 | 12,300 | 15,400 | 19,100 | | |
| Cooling capacity | | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | | |
| Hoating capacity | leating capacity | | 8,500 | 10,900 | 13,600 | 17,100 | 21,500 | | |
| rieating capacity | | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | | |
| ower consumption Cooling | | kW | 0.0 |)56 | 0.060 | 0.151 | 0.128 | | |
| *1 Heating | | kW | 0.0 |)44 | 0.048 | 0.139 | 0.116 | | |
| Casing Galvanised steel plate | | | | | | | | | |
| Airflow rate (HH/I | //) | ℓ/s | 150/12 | 25/108 | 158/133/116 | 267/216/183 | 300/275/250 | | |
| Allilow rate (Fill I/I | /L) | m³/min | 9/7.5 | 5/6.5 | 9.5/8/7 | 16/13/11 | 18/16.5/15 | | |
| External static pro | ssure*2 | Pa | 30-100 (50) | | | 30-160 (100) | 50-200 (100) | | |
| Sound level (HH/ | 1/L) | dB(A) | 33/3 | 1/29 | 34/32/30 | 39/37/35 | 41/39/37 | | |
| Sound power (H) | | dB(A) | 5 | 1 | 52 | 57 | 59 | | |
| Dimensions (H×V | /×D) | mm | | 300x550x700 | | 300x700x700 | 300x1,000x700 | | |
| Machine weight | | kg | | 25 | | 27 | 35 | | |
| Li | quid (Flare) | | | | ∮ 6.4 | | | | |
| Piping G | as (Flare) | mm | · | · | φ12.7 | · | | | |
| D | ain | | | VP25 | External Dia. 32/Internal | Dia. 25) | | | |

| MO | DEL | | FXMQ63PAVE | FXMQ80PAVE | FXMQ100PAVE | FXMQ125PAVE | FXMQ140PAVE | | | |
|-----------------------|-------------|--------|------------------------|-------------|---------------------------|---------------|-------------|--|--|--|
| Power supply | | | | 1-pha | ase, 220-240 V/220 V, 50/ | 60 Hz | • | | | |
| Cooling consoits | | Btu/h | 24,200 | 30,700 | 38,200 | 47,800 | 54,600 | | | |
| Cooling capacity | | kW | 7.1 | 9.0 | 11.2 | 14.0 | 16.0 | | | |
| Heating capacity | | Btu/h | 27,300 | 34,100 | 42,700 | 54,600 | 61,400 | | | |
| nealing capacity | | kW | 8.0 | 10.0 | 12.5 | 16.0 | 18.0 | | | |
| Power consumption | Cooling | kW | 0.138 | 0.185 | 0.215 | 0.284 | 0.405 | | | |
| *1 Heating | | kW | 0.127 | 0.173 | 0.203 | 0.272 | 0.380 | | | |
| Casing | | | Galvanised steel plate | | | | | | | |
| Airflow rate (HH/H/L) | | ℓ/s | 325/292/267 | 417/375/333 | 533/450/383 | 650/550/466 | 767/649/533 | | | |
| | | m³/min | 19.5/17.5/16 | 25/22.5/20 | 32/27/23 | 39/33/28 | 46/39/32 | | | |
| External static pres | sure*2 | Pa | 50-200 (100) 50-14 | | | | | | | |
| Sound level (HH/H | L) | dB(A) | 42/40/38 | 43/4 | 11/39 | 44/42/40 | 46/45/43 | | | |
| Sound power (H) | | dB(A) | 60 | (| 61 | 62 | 64 | | | |
| Dimensions (H×W) | (D) | mm | 300x1,0 | 000x700 | | 300x1,400x700 | | | | |
| Machine weight | | kg | 3 | 35 | 4 | 5 | 46 | | | |
| Liq | uid (Flare) | | | | <i>ϕ</i> 9.5 | | | | | |
| Piping Ga: | s (Flare) | mm | | | φ15.9 | | | | | |
| Dra | in | | | VP25 (| External Dia. 32/Internal | Dia. 25) | | | | |

| МС | DEL | | FXMQ160PV1A | FXMQ180PV1A | FXMQ200PV1A | FXMQ250PV1A | | | |
|---------------------|---------------------------|--------|---------------------------|------------------------|------------------------|-------------------|--|--|--|
| Power supply | | | | 1-phase, 220 | -240 V, 50 Hz | | | | |
| Cooling capacity | | Btu/h | 61,400 | 68,200 | 76,400 | 95,500 | | | |
| Cooling capacity | | kW | 18.0 | 20.0 | 22.4 | 28.0 | | | |
| Heating capacity | | Btu/h | 68,200 | 76,400 | 85,300 | 107,500 | | | |
| | | kW | 20.0 | 22.4 | 25.0 | 31.5 | | | |
| Power consumption | Power consumption Cooling | | 0.6 | 650 | 0.640 | 0.810 | | | |
| *1 Heating | | kW | 0.6 | 650 | 0.640 | 0.810 | | | |
| Casing | | | | Galvanized steel plate | | | | | |
| Airflow rate (HH/H | /1 \ | ℓ/s | 1,120/955/790 | 1,160/995/820 | 1,200/1,025/850 | 1,400/1,200/1,000 | | | |
| Allilow fale (HH/H | L) | m³/min | 67.2/57.3/47.4 | 69.6/59.7/49.2 | 72.0/61.5/51.0 | 84.0/72.0/60.0 | | | |
| External static pre | ssure*2 | Pa | 60-217 (138) 50-210 (130) | | 50-250 | 0 (150) | | | |
| Sound level (HH/F | /L) | dB(A) | 45/41 | .5/38 | 44/40.5/37 | 46/42.5/39 | | | |
| Sound power (H) | | dB(A) | 7 | 3 | 72 | 74 | | | |
| Dimensions (H×W | ×D) | mm | 470x1,1 | 33x919 | 470x1,3 | 333x919 | | | |
| Machine weight | | kg | 7 | 0 | 79 | 85 | | | |
| Lic | uid | | | | φ 9.5 (Brazing) | | | | |
| Piping Ga | S | mm | <i>∮</i> 15.9 (Flare) | <i>∲</i> 19.1 (I | Brazing) | φ 22.2 (Brazing) | | | |
| Dr | ain | | | BSP 3/4 internal to | hread (OD ϕ 32.7) | | | | |

Note: Specifications are based on the following conditions;

*Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.

*Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.

*Capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for total capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for details.)

*Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.

During actual operation, these values are normally somewhat higher as a result of ambient conditions.

*1: Power consumption values are based on conditions of rated external static pressure.

*2: External static pressure can be modified using a remote controller that offers seven (FXMQ20-32PA), thirteen (FXMQ40PA), fourteen (FXMQ50-125PA), ten (FXMQ140PA) or fifteen (FXMQ160-250P) levels of control.

These values indicate the lowest and highest possible static pressures. The rated static pressure is 50 Pa for FXMQ20-32PA 100 Pa for FXMQ40-140PA. These values indicate the lowest and highest possible static pressures. The rated static pressure is 50 Pa for FXMQ20-32PA 100 Pa for FXMQ40-140PA, 138 Pa for FXMQ160P, 130 Pa for FXMQ180P and 150 Pa for FXMQ200-250P.

Ceiling Suspended Type



Slim body with quiet and wide airflow





FXHQ125 / 140A



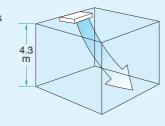


New 125 / 140 models provide greater capacity for large spaces

- The technology of the DC fan motor, wide sirocco fan, and large heat exchanger combine for greater airflow and quiet operation.
- Sophisticated design
- •Flap neatly closes when not in use.



Suitable for high ceilings

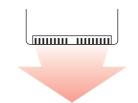


- Switchable fan speed: 3 steps
- Control of airflow rate has been improved from 2-step to 3-step.
- Drain pump kit (option) includes a silver ion antibacterial agent that assists in preventing the growth of slime, bacteria, and mould that cause smells and clogging.
- Wireless LCD remote controller
- A signal receiver must be added to the indoor unit.





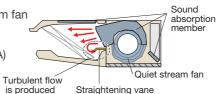
- Auto swing (up and down) and louvers (left and right by hand) bring comfort to the room.
- Louver manually adjusts for straight or wide angle airflow.





Quiet operation

• Uses quiet stream fan and other quiet technologies. (FXHQ32-100MA)



dB(A)

| | | | ab(, t) | | | |
|-------------|-------------|----|---------|--|--|--|
| Indoor unit | Sound level | | | | | |
| muoor unit | Н | M | L | | | |
| FXHQ32MA | 36 | _ | 31 | | | |
| FXHQ63MA | 39 | _ | 34 | | | |
| FXHQ100MA | 45 | _ | 37 | | | |
| FXHQ125A | 46 | 41 | 37 | | | |
| FXHQ140A | 48 | 42 | 37 | | | |

Easy maintenance

- Non-dew flap
- Condensation does not easily form on and dirt does not cling to non-dew flap.

It is easy to clean. Non-dew flap



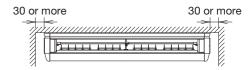
- •It is easy to wipe dirt off the flat side and lower surfaces of
- Oil-resistant plastic is used for the air suction grille. This satisfies durability in restaurants and other similar

Note: Intended for use in salons, dining rooms, and ordinary sales floors, this specification is not suitable for kitchens or other harsh environments

Installation flexibility

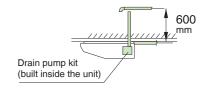
- Flexible installation
- •The unit fits more snugly into tight spaces.

[Required installation space (mm)]



*Water used in the test-run can be drained from the air discharge opening rather than from the side as was formerly

- Drain pump kit (option) can be easily incorporated.
- Drain pipe connection can be done inside the unit. Refrigerant and drain pipe outlets are at the same opening.



- All wiring and internal servicing can be done from under the unit.
- The rear side removable frame allows ease of access for piping work.



Specifications

| | MODEL | | FXHQ32MAVE | FXHQ63MAVE | FXHQ100MAVE | FXHQ125AVM | FXHQ140AVM |
|---------------------|------------------|--------|---------------|------------------------|--|-------------|-------------|
| Power supp | ly | | 1-phas | se, 220-240 V/220 V, 5 | 1-phase, 220-240 V/220-230 V, 50/60 Hz | | |
| Cooling capacity | | Btu/h | 12,300 | 24,200 | 38,200 | 48,000 | 52,900 |
| Cooling Cap | acity | kW | 3.6 | | | 14.1 | 15.5 |
| Heating capacity | | Btu/h | 13,600 | 27,300 | 42,700 | 54,600 | 58,000 |
| ricating cap | neating capacity | | 4.0 | 8.0 | 12.5 | 16.0 | 17.0 |
| Power | Cooling | kW | 0.111 | 0.115 | 0.135 | 0.168 | 0.181 |
| consumption Heating | | KVV | 0.111 | 0.115 | 0.135 | 0.168 | 0.181 |
| Casing | | | She | et Metal / White (10Y9 | /0.5) | Sheet Me | tal / White |
| Airdless water | /L L /N A /L \ | l/s | 200/-/166 | 291/-/233 | 416/-/325 | 567/433/333 | 600/450/333 |
| Airflow rate | (H/IVI/L) | m³/min | 12/-/10 | 17.5/-/14 | 25/-/19.5 | 34/26/20 | 36/27/20 |
| Sound level | (H/M/L) | dB(A) | 36/-/31 | 39/-/34 | 45/-/37 | 46/41/37 | 48/42/37 |
| Dimensions | (H×W×D) | mm | 195×960×680 | 195×1,160×680 | 195×1,400×680 | 235×1, | 590×690 |
| Machine we | ight | kg | 24 | 28 | 33 | 4 | ļ1 |
| | Liquid (Flare) | | φ6.4 | | <i>φ</i> 9 | .5 | |
| Piping connections | Gas (Flange) | mm | <i>ϕ</i> 12.7 | | <i>\$</i> 15 | 5.9 | |
| | Drain | | | Dia. 20) | | | |

- Note: Specifications are based on the following conditions;

 Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
 Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.

During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Wall Mounted Type



Stylish flat panel design harmonised with your interior décor



An invisible air intake at the top of the unit

Higher airflow

- An invisible air intake at the top of the unit
- Vertical auto-swing enables efficient air and temperature distribution throughout the room.
- The louver closes automatically when the unit stops.
- Enhanced comfort is achieved.
- •5 step discharge angles can be set by remote controller.
- Discharge angle is automatically set at the same angle as previous operation when restart.

| MODEL | | | FXAQ20A | FXAQ25A | FXAQ32A | FXAQ40A | FXAQ50A | FXAQ63A |
|--------------|---|--------|---------|---------|---------|---------|---------|---------|
| Airflow rate | Н | m³/min | 9.1 | 9.4 | 9.8 | 12.2 | 15.0 | 19.0 |
| | L | mymin | 7.0 | 7.0 | 7.0 | 9.7 | 12.0 | 14.0 |

Lower sound level

- Whisper quiet in operation, with sound levels as low as 28.5 dB(A)* *Sound level for FXAQ20-32A
- An ideal solution for a wide range of commercial spaces, including individual office spaces.

Wireless LCD remote controller

• A signal receiver must be added to the indoor unit.

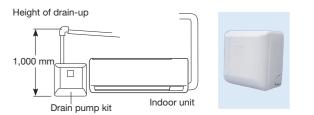




| MODEL | | | FXAQ20A | FXAQ25A | FXAQ32A | FXAQ40A | FXAQ50A | FXAQ63A |
|-------------|---|-------|---------|---------|---------|---------|---------|---------|
| Sound level | Н | dB(A) | 33.0 | 35.0 | 37.5 | 37.0 | 41.0 | 46.5 |
| | L | | 28.5 | 28.5 | 28.5 | 33.5 | 35.5 | 38.5 |

- •Stylish flat panel design creates a graceful harmony that enhances any interior space.
- •Flat panel can be cleaned with only the single pass of a cloth across their smooth surface. Flat panel can also be easily removed and washed for more thorough cleaning.
- •Drain pan and air filter can be kept clean by mould-proof polystyrene.

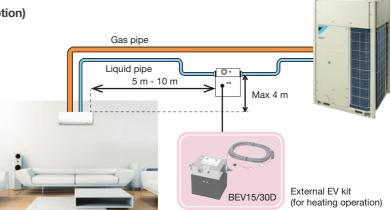
- Flexible installation
- Drain pipe can be fitted to from either left or right sides.
- Drain pump kit is available as optional accessory, which lifts the drain 1,000 mm from the bottom of the unit.



External EV kit (for heating operation) (Option)

This product, which is concealed in ceilings or corridors for quieter heating operation, is used to connect indoor units in places where quiet environment is required such as residential living rooms.

* This option is only effective for reducing operation sound during heating operation. Therefore it is ineffective when connected to cooling only outdoor



Specifications

| MODEL | | | FXAQ20AVM | FXAQ25AVM | FXAQ32AVM | FXAQ40AVM | FXAQ50AVM | FXAQ63AVM | |
|----------------------------|----------------|---------|--|-----------|-----------|-----------|-----------|-----------|--|
| Power supply | | | 1-phase, 220-240 V/220-230 V, 50/60 Hz | | | | | | |
| Cooling capacity Btu/r kW | | Btu/h | 7,500 | 9,600 | 12,300 | 15,400 | 19,100 | 24,200 | |
| | | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | |
| Heating capacity Btu/h kW | | Btu/h | 8,500 | 10,900 | 13,600 | 17,100 | 21,500 | 27,300 | |
| | | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | |
| Power consumption | Cooling | kW | 0.040 | 0.040 | 0.040 | 0.050 | 0.060 | 0.100 | |
| | 1 Heating | T KVV | 0.040 | 0.040 | 0.050 | 0.050 | 0.070 | 0.110 | |
| Casing | | | Resin / White N9.5 | | | | | | |
| Airflow rate (H/L) | | ℓ/s | 151/116 | 156/116 | 163/116 | 203/161 | 250/200 | 316/233 | |
| | | m³/min | 9.1/7.0 | 9.4/7.0 | 9.8/7.0 | 12.2/9.7 | 15.0/12.0 | 19.0/14.0 | |
| Sound level (H/L) | Cooling | dB(A) | 33.0/28.5 | 35.0/28.5 | 37.5/28.5 | 37.0/33.5 | 41.0/35.5 | 46.5/38.5 | |
| | Heating | T UD(A) | 34.0/28.5 | 36.0/28.5 | 38.5/28.5 | 38.0/33.5 | 42.0/35.5 | 47.0/38.5 | |
| Dimensions (H×W×D) mn | | mm | 290×795×266 290×1,050×269 | | | | | | |
| Machine weight | | kg | 12 15 | | | | | | |
| Piping connections | Liquid (Flare) | | \$\phi 6.4 | | | | | φ9.5 | |
| | Gas (Flange) | mm | φ12.7 | | | | | φ15.9 | |
| | Drain | | VP13 (External Dia. 18/Internal Dia. 15) | | | | | | |

- Note: Specifications are based on the following conditions;

 •Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
 - •Heating: Indoor temp.: 20°CDB, 15°CWB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
 •Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
 - •Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.

During actual operation, these values are normally somewhat higher as a result of ambient conditions.

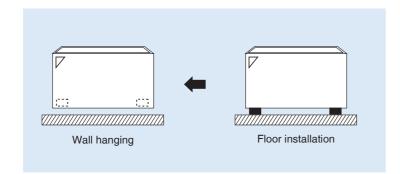
Floor Standing Type

FXLQ-MA

Suitable for perimeter zone air conditioning



- •Floor Standing types can be hung on the wall for easier cleaning. Running the piping from the back allows the unit to be hung on walls. Cleaning under the unit, where dust tends to accumulate, is considerably easier.
- •The adoption of a fibre-less discharge grille featuring an original design to prevent condensation also helps prevent staining and makes cleaning easier.
- •A long-life filter (maintenance free up to one year*) is equipped as standard accessory.
- * 8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m



Specifications

| M | DDEL | | FXLQ20MAVE | FXLQ25MAVE | FXLQ32MAVE | FXLQ40MAVE | FXLQ50MAVE | FXLQ63MAVE | | |
|---|------------|--------|------------------------------------|-----------------------------|---------------|------------|---------------|------------|--|--|
| Power supply | | | 1-phase, 220-240 V/220 V, 50/60 Hz | | | | | | | |
| Cooling capacity Btu/l | | Btu/h | 7,500 | 7,500 9,600 | | 15,400 | 19,100 | 24,200 | | |
| Cooling capacity | kW | | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | | |
| Heating capacity | | Btu/h | 8,500 | 10,900 | 13,600 | 17,100 | 21,500 | 27,300 | | |
| | | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | | |
| Power consumption Cooling kW Heating kW | | kW | 0.0 |)49 | 0.090 | | 0.110 | | | |
| | | kW | 0.0 |)49 | 0.090 | | 0.110 | | | |
| Casing | | | | FXLQ: Ivory white (5Y7.5/1) | | | | | | |
| Airflow rate (H/L | | ℓ/s | 116/100 | | 133/100 | 183/141 | 233/183 | 266/200 | | |
| Allilow rate (H/L | | m³/min | 7/6 | | 8/6 | 11/8.5 | 14/11 | 16/12 | | |
| Sound level (H/L) | 240 V | dB(A) | | 37/34 | • | 40/35 | 41/36 | 42/37 | | |
| Dimensions (H×V | /×D) | mm | 600×1,0 | 000×222 | 600×1,140×222 | | 600×1,420×222 | | | |
| Machine weight kg | | kg | 25 | 5.0 | 30.0 | | 36.0 | | | |
| Liquid (Flare) | | | | | φ6.4 | | | φ9.5 | | |
| Piping G | as (Flare) | mm | | | φ12.7 | | φ15.9 | | | |
| Drain | | | | 210.D. | | | | | | |

Note: Specifications are based on the following conditions;

*Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.

*Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.

*Capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for reference.

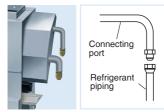
Concealed Floor Standing Type

FXNQ-MA

Designed to be concealed in the perimeter skirting-wall



- •The unit is concealed in skirting-wall of perimeter, that enables to create high class interior design.
- •The connecting port faces downward, greatly facilitating on-site piping work.



- A long-life filter (maintenance free up to one year*) is equipped as standard accessory.
- * 8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m³

Specifications

| ı | MODEL | | FXNQ20MAVE | FXNQ25MAVE | FXNQ32MAVE | FXNQ40MAVE | FXNQ50MAVE | FXNQ63MAVE | |
|--------------------|--------------------|--------|------------------------------------|------------|--------------|------------|---------------|------------|--|
| Power supply | | | 1-phase, 220-240 V/220 V, 50/60 Hz | | | | | | |
| Cooling capacity | | Btu/h | 7,500 | 9,600 | 12,300 | 15,400 | 19,100 | 24,200 | |
| Cooling capacity | | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | |
| Heating consoit. | | Btu/h | 8,500 | 10,900 | 13,600 | 17,100 | 21,500 | 27,300 | |
| Tieating capacit | Heating capacity k | | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | |
| Power consump | Cooling | | 0.0 |)49 | 0.090 | | 0.110 | | |
| rower consump | Heating | kW | 0.0 |)49 | 0.0 | 90 | 0.110 | | |
| Casing | | | FXNQ: Galvanised steel plate | | | | | | |
| Airflow rate (H/ | 1) | ℓ/s | 116/100 | | 133/100 | 183/141 | 233/183 | 266/200 | |
| Allilow rate (11/ | L) | m³/min | 7. | /6 | 8/6 | 11/8.5 | 14/11 | 16/12 | |
| Sound level (H/I | .) 240 V | dB(A) | | 37/34 | | 40/35 | 41/36 | 42/37 | |
| Dimensions (Hx | W×D) | mm | 610×93 | 30×220 | 610×1,0 |)70×220 | 610×1,350×220 | | |
| Machine weight kg | | kg | 19 | 0.0 | 23 | 3.0 | 27 | 27.0 | |
| Liquid (Flare) | | | | | <i>ϕ</i> 6.4 | φ6.4 | | | |
| Piping connections | Gas (Flare) | mm | | | φ12.7 | | | φ15.9 | |
| | Drain | | | | 210 | O.D. | | | |

Note: Specifications are based on the following conditions;

*Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.

*Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.

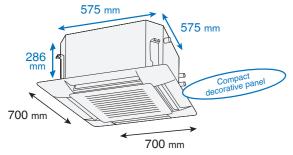
*Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)

*Sound level: Anechoic chamber conversion value, measured at a point 1.5 m in front of the unit at a height of 1.5 m.

During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Quiet, compact, and designed for user comfort

•Designed to fit 600 mm wide ceiling grids





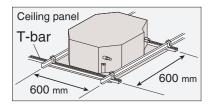


Note: Remote controller

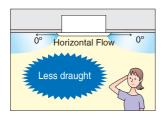
cables not included. Cables should be

Signal receiver unit Note: Wireless remote controllers and signal receiver units are sold

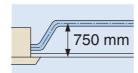
•T-bar grid does not need to be cut.



•Low draft performance is designed for your comfort.



 Drain pump is equipped as standard accessory with 750 mm lift.



Comfortable across all areas

Conditioned air is distributed evenly by Auto-swing operation.

Adjustable airflow angle to suit all room

| | • . | |
|---|------------------------------------|---|
| | AUTO-SWING | 5 direction |
| Standard setting | Auto-swing between 0° and 60° | Settable to 5° different levels 60° between 0° and 60° |
| Draft prevention setting (Set on site) | Auto-swing 35° between 0° and 35° | Settable to 5° different levels between 0° and 35° |
| Setting to prevent soiling of ceiling (Set on site) | Auto-swing 60° between 25° and 60° | 25° Settable to 5° different levels between 25° and 60° |

Note: Angles shown above are provided as a guide. They may differ depending on the installation site.

Specifications

| | MODEL | | FFQ25BV1B | FFQ35BV1B | FFQ50BV1B | FFQ60BV1B | |
|-------------------------------|-------------------|--------------|--|---------------|----------------|------------|--|
| Power supply | | | | 1-phase, 220 |)-240 V, 50 Hz | | |
| Airflow rate (H) m³/min(l/s) | | m³/min(ℓ/s) | 9.0 (150) | 10.0 (167) | 12.0 (200) | 15.0 (250) | |
| Sound level (I | H/L)* | dB(A) | 29.5/24.5 | 32/25 | 36/27 | 41/32 | |
| Sound power | level (H) | dB(A) | 46.5 | 49 | 53 | 58 | |
| Fan speed | | | | 2 s | teps | | |
| Temperature control | | | | Microcomp | outer control | | |
| Dimensions (H×W×D) mm | | mm | 286x575x575 | | | | |
| Machine weig | ht | kg | 17.5 | | | | |
| 5 | Liquid (Flare) | | ϕ 6.4 | | | | |
| Piping connections | Gas (Flare) | mm | ϕ 9 | 9.5 | <i>ϕ</i> 12.7 | | |
| COMMODIO | Drain | | VP20 (External Dia. 26/Internal Dia. 20) | | | | |
| Heat insulatio | n | | | Both liquid a | and gas pipes | | |
| | Model | | BYFQ60B3W1 | | | | |
| Panel Colour | | | | WI | hite | | |
| (Option) | Dimensions(H×W×D) | mm | | 55x70 | 00x700 | | |
| | Weight | kg | 2.7 | | | | |

Note: * Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

Indoor Unit Lineup

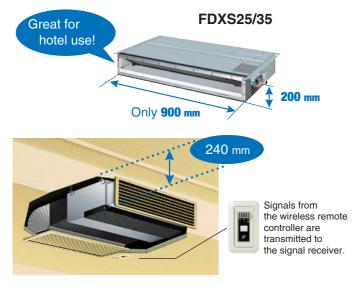
Slim Ceiling Mounted Duct Type

FDXS-C

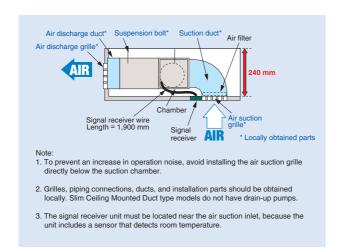
Slim and smooth design suits your shallow ceiling



•Models in the FDXS25/35 series are only 900 mm in width and 25 kg in weight, so are easily installed in limited spaces. Just 200 mm in height, all models can be installed in rooms with as little as 240 mm depth between the drop ceiling and ceiling slab, making them ideal for even shallow ceilings.



- •Home Leave Operation prevents large rises or falls in the indoor temperature by continuing operation* while you are sleeping or out of your home. This means that an air-conditioned welcome awaits when you wake or return. It also means that the indoor temperature can quickly return to your favourite comfort setting.
- * Home Leave Operation can be selected for any temperature from 18 to 32°C for cooling operation and 10 to 30°C for heating operation.
- Home Leave Operation function must be set using the remote controller when going to sleep or leaving the house, and after waking up or returning



Specifications

| | MODEL | | EDVO0E0V### | EDV00E0V444 | EDVOESOVALA. | EDV0000VIII | | |
|-----------------------------|-----------------------|--------------|--|-------------|--------------|---------------|--|--|
| | MODEL | | FDXS25CVMA | FDXS35CVMA | FDXS50CVMA | FDXS60CVMA | | |
| Power supply | | | 1-phase, 220-240 V/220-230 V, 50/60 Hz | | | | | |
| Airflow rate (H | 1) | m³/min(ℓ/s) | 9.5 (158) 10.0 (167) | | 12.0 (200) | 16.0 (267) | | |
| Sound level (H/L/SL)* dB(A) | | dB(A) | 35/3 | 1/29 | 37/33/31 | 38/34/32 | | |
| Sound power | Sound power (H) dB(A) | | 5 | 3 | 55 | 56 | | |
| Fan speed | | | 5 steps, quiet and automatic | | | | | |
| Temperature of | Temperature control | | Microcomputer control | | | | | |
| Dimensions (H | H×W×D) | mm | 200x900x620 | | | 200x1,100x620 | | |
| Machine weig | ht | kg | 25 | | 27 | 30 | | |
| 6 | Liquid (Flare) | | | 9 | φ6.4 | | | |
| Piping connections | | | ϕ 9 | 0.5 | φ12.7 | | | |
| Drain | | 1 [| VP20 (External Dia. 26/Internal Dia. 20) | | | | | |
| Heat insulation | Heat insulation | | Both liquid and gas pipes | | | | | |
| External station | pressure | Pa | 40 | | | | | |

Note: *The operation sound level values represent those for rear-suction operation and an external static pressure of 40 Pa. Sound level values for bottom-suction operation can be obtained by adding 5 dB (A)

Residential Indoor Units with connection to BP units

Wall Mounted Type

FTXS-K(A)

Standard accessory

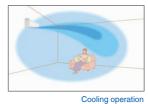
Stylish flat panel harmonises with your interior décor

 Intelligent Eye with its infrared sensor automatically controls air conditioner operation according to human movement in a room. When there is no movement, it adjusts the temperature by 2°C for energy savings.





•Comfort Airflow Mode prevents uncomfortable drafts from blowing directly on to your body. With this function, when you press the COMFORT button during cooling operation, the flap moves upward to prevent direct cold drafts. During heating operation, it also moves downward to prevent direct drafts and deliver warm air to the floor.

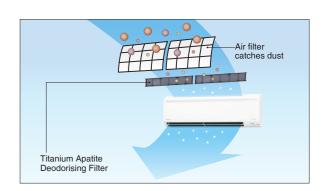




Heating operation

Titanium Apatite Deodorising Filter

•While the filter's micron-level fibres trap dust, titanium apatite effectively adsorbs odours and allergens, as well as deodorises odours.

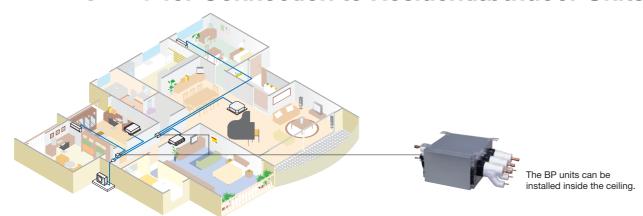


This filter is not a medical device. Benefits such as the adsorption of odours and allergens and deodorisation of odours are only effective for substances which are directly attached to the Titanium Apatite Deodorising Filter.

Specifications

| M | ODEL | | FTXS20KVMA | FTXS25KVMA | FTXS35KVMA | FTXS50KAVMA | FTXS60KAVMA | FTXS71KAVMA |
|---------------------|------------|-------------|--|-----------------------|---------------|---------------|-------------|---------------|
| Power supply | | | 1-phase, 220-240 V/220-230 V, 50/60 Hz | | | | | |
| Front panel colour | | | | | WI | hite | | |
| Airflow rate (H) | Cooling | m³/min(ℓ/s) | 9.7 (| 161) | 11.3 (188) | 14.7 (245) | 16.2 (270) | 17.4 (290) |
| Allilow fale (II) | Heating | | 10.5 (175) | | 11.5 (191) | 16.2 (270) | 17.4 (290) | 21.5 (358) |
| Sound level (H/L/s | Cooling | dD(A) | 38/2 | 5/22 | 42/26/23 | 44/35/32 | 45/36/33 | 46/37/34 |
| Souria level (H/L/s | Heating | dB(A) | 39/28/25 | | 42/29/26 | 42/33/30 | 44/35/32 | 46/37/34 |
| Sound power (H) | Cooling | | 5 | 4 | 58 | 60 | 61 | 62 |
| Souria power (H) | Heating | dB(A) | 55 | | 58 | | 60 | 62 |
| Fan speed | | | 5 steps, quiet and automatic | | | | | |
| Temperature con | trol | | | Microcomputer control | | | | |
| Dimensions (Hx\ | N×D) | mm | | 295x800x215 | 290x1,050x250 | | | |
| Machine weight | | kg | | 9 | 10 | | 12 | |
| Liquid (Flare) | | | | | ϕ | 6.4 | | |
| Piping connections | as (Flare) | mm | | <i>ϕ</i> 9.5 | φ1 | | 2.7 | <i>∲</i> 15.9 |
| |)rain | | | I.D ¢14.0xO.D ¢18.0 | | | | |
| Heat insulation | | | | | Both liquid a | ınd gas pipes | | |

BP Units for Connection to Residential Indoor Units



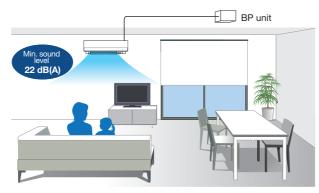
Connectable to Residential Indoor Units

BP units allow VRV systems to be connected to Daikin's stylish and quiet residential indoor units.



Quiet Operating Sound

Expansion valves tend to create refrigerant passing noise. However, this noise can be reduced by installing the valves in BP units. The units can be fitted inside the ceiling or roof-space far from an indoor unit. Some Daikin residential indoor units also provide minimum sound levels of just 22 dB(A). Together these features ensure your system continues to operate as quietly as possible.



Specifications





BPMKS967A2

| | MOI | DEL | | BPMKS967A3 | BPMKS967A2 | | |
|---|----------|----------|---|--|--------------|--|--|
| Power supply | | | | 1-phase, 220-240 V/220-230 V, 50/60 Hz | | | |
| Number of ports | | | 3 (connectable to 1-3 indoor units) | 2 (connectable to 1-2 indoor units) | | | |
| Power cor | nsumpti | ion | W | 1 | 0 | | |
| Running o | urrent | | Α | 0. | 05 | | |
| Dimension | ns (HXV | /XD) | mm | 180X294(+ | 356*)X350 | | |
| Machine v | veight | | kg | 8 | 7.5 | | |
| Number of wiring connections | | tions | 3 for power supply (including earth wiring), 2 for interunit wiring (outdoor unit-BP, BP-BP), 4 for interunit wiring (BP-indoor unit) 2 for interunit wiring (outdoor unit-BP, B 3 for interunit wiring (BP-indoor unit) | | | | |
| 5 | 1.1 | Main | | φ9. | 5X1 | | |
| Piping connections | Liquid | Branch | nch mm | φ6.4X3 | φ 6.4X2 | | |
| (Brazing) | Gas | Main | | φ19. | .1X1 | | |
| , ,, | Gas | Branch | mm | φ15.9X3 | φ15.9X2 | | |
| Heat insul | ation | | | Both liquid a | nd gas pipes | | |
| Connecta | ble indo | or units | | 2.0 kW class to 7.1 kW class | | | |
| Min. rated capacity of connectable indoor units | | kW | 2.0 | | | | |
| Max. rated | | | kW | 20.8 | 14.2 | | |

Note: * Total auxiliary piping length.

BS Units for Heat Recovery

Specifications — Individual BS Unit



| Opol | ,,,, | Jacioi | | marviadai Be | , ome | | | |
|---------------------------------|---------------------------|-------------------|--------------------------|------------------------|-------------------------------|------------------------------|--|--|
| | MOI | DEL | | BSQ100AV1 | BSQ100AV1 BSQ160AV1 BSQ250A | | | |
| Power supply | | | | | 1-phase, 220-240 V, 50 Hz | | | |
| No. of branches | | | | | 1 | | | |
| Total capacity | index of co | onnectable indoor | r units | 20 to 100 | More than 100 but 160 or less | More than 160 but 250 or les | | |
| No. of connectable indoor units | | | s | Max. 5 | Max. 8 | Max. 8 | | |
| Casing | | | | Galvanised steel plate | | | | |
| Dimension | ns (H×W | /×D) | mm | 207×388×326 | | | | |
| | Indoor | Liquid | mm | φ9.5 (Brazing) *1 | | φ9.5 (Brazing) | | |
| Distant | Unit | Gas |] | | φ15.9 (Brazing) *2 | φ22.2 (Brazing) *3 | | |
| Piping connections | | Liquid | | φ9.5 (Brazing) | | φ9.5 (Brazing) | | |
| | Outdoor Unit | Suction gas | mm | | φ15.9 (Brazing) *2 | φ22.2 (Brazing) *3 | | |
| | High and low pressure gas | | | | φ12.7 (Brazing) ★2 | φ19.1 (Brazing) *3 | | |
| Machine weight kg | | kg | 11 | 11 | 14 | | | |
| Sound level dB(A) | | dB(A) | 35(40)*4 41(45)*4 41(45) | | 41(45)*4 | | | |

- Note: ★ 1. When connecting with an indoor unit with a capacity index between 20 and 50, connect the attached pipe to the field pipe.

 (Braze the connection between the attached and field pipe.)
 - ★ 2. When connecting with indoor units with total capacity indexes 150 or more and 160 or less, connect the attached pipe to the field pipe. (Braze the connection between the attached and field pipe.)
 - ★ 3. When connecting with indoor units with a capacity index of 200, or with total capacity indexes more than 160 and less than
 - 200, connect the attached pipe to the field pipe. (Braze the connection between the attached and field pipe.)

 4. Figures in brackets () indicate maximum value of transient sound (the change of cooling and heating).
 - Do not install at the place such as bed room. Small sound of refrigerant will be made, which may be disturbing.

Specifications — Centralised BS Unit





16 branch

| | MOI | DEL | | BS4Q14AV1 | BS6Q14AV1 | BS8Q14AV1 | BS10Q14AV1 | BS12Q14AV1 | BS16Q14AV1 |
|--|---------------------------|-------------|-------------|--|-----------------------------|------------------------------|-------------------------------------|-------------------------|-----------------------------|
| Power supply | | | | 1-phase, 220-240 V, 50 Hz | | | | | |
| No. of bra | nches | | | 4 | 4 6 8 10 12 | | | 16 | |
| Capacity index of connectable indoor units of branch | | | | | | Max | . 140 | | |
| Capacity index of connectable indoor units | | | | Max. 400 | Max. 600 | | Max | . 750 | |
| No. of connectable indoor units per branch | | | | | | | 5 | | |
| Casing | | | | | | Galvanised | steel plate | | |
| Dimensions (H×W×D) mn | | mm | 298×370×430 | 98×370×430 298×580×430 298×820×430 29 | | | 298×1060×430 | | |
| | Indoor | Liquid | | φ6.4, φ9.5 Brazing ^{*1} | | | | | |
| | Unit | Gas | mm | φ12.7, φ15.9 Brazing ^{★1} | | | | | |
| Piping | | Liquid | | φ9.5 Brazing ^{★2} | φ12.7 Brazing ^{★2} | φ 12.7 Brazing (φ 15.9)*2 | φ15.9 Brazing ^{★2} | φ15.9 Brazing (φ19.1)*2 | φ19.1 Brazing ^{★2} |
| connections | Outdoor Unit | Suction gas | mm | φ22.2 Brazing (φ19.1)*2 | φ28.6 B | razing*2 | φ28.6 Braziı | ng(\$\phi 34.9)*2 | φ34.9 Brazing ^{★2} |
| | High and low pressure gas | | | φ19.1 Brazing (φ15.9)*2 | φ19.1 Brazing (φ22.2)*2 | φ19.1 Brazing (φ22.2,28.6)*2 | <i>ϕ</i> 28.6 Brazing ^{★2} | | 2 |
| Machine weight kg | | kg | 17 | 24 | 26 | 35 | 38 | 50 | |
| Sound lev | rel | | dB(A) | 38(45)*3 | 39(4 | 47)* ³ | 40(| 48)* ³ | 41(49)*3 |
| Drain pipe | size | | mm | VP20 (External Dia. 26/Internal Dia. 20) | | | | | |

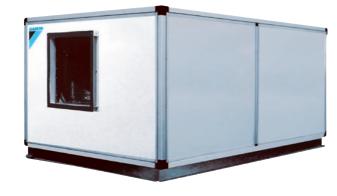
- Note: ★ 1. When connecting with an indoor unit with a capacity index between 20 and 50, connect the attached pipe to the field pipe.
- (Braze connection between the attached and field pipe.) In case of others, cut the outlet pipe and connect to the connecting pipe.
- ★ 2. Reducer may be required (obtain locally) if joint diameter does not fit on the triple piping side. Figures in brackets () is the size when using the attached reducer. Insulators are necessary (obtain locally) for piping connections on the outdoor unit side.
- ★ 3. Figures in brackets () indicate maximum value of transient sound (the change of cooling and heating).
 Must be installed in locations where the noise generated by the BS unit does not cause any problem.

Air Handling Unit

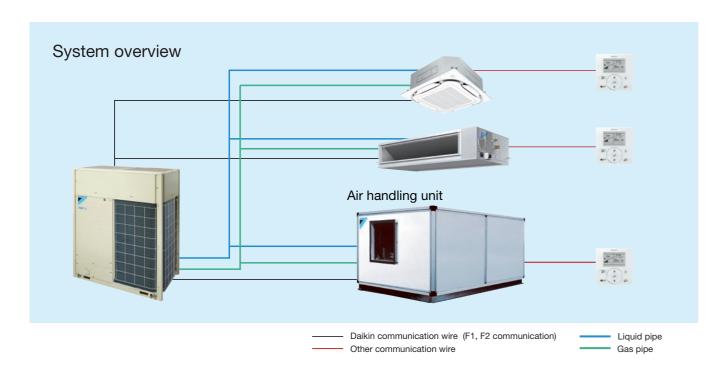
Air Handling Unit

Integrate your air handling unit in a total solution for large size spaces such as factories and large stores.

AHUR
Capacity range : 6 – 160 class

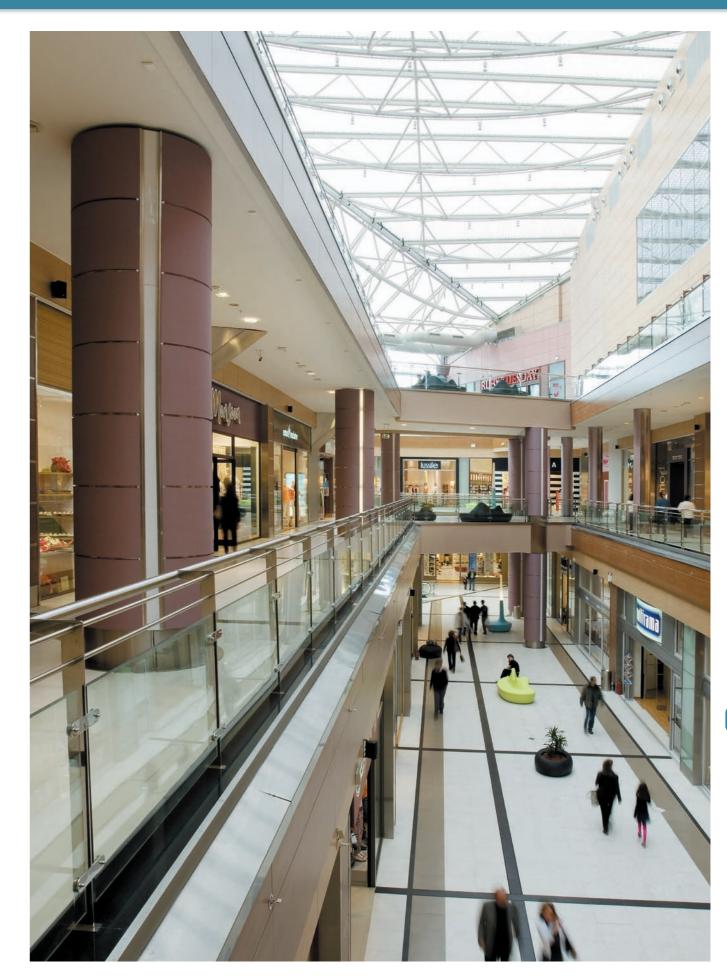


- Easy design and installation
- •The system is easy to design and install since no additional water systems such as boilers, tanks and gas connections etc are required.
- •Inverter controlled units
- •Control of air temperature via standard Daikin wired remote control for standard series



Daikin air handling units can be connected to VRV systems.

This combination can be built to order as a system. Outdoor air series is also possible. Please contact your local sales office for details.





A recent trend rapidly gaining popularity is for air treatment to be required as well as air conditioning. Daikin's Outdoor-Air Processing Unit can combine fresh air treatment and air conditioning, supplied from a single system. It adjusts the temperature of air from outdoors using a fixed discharge temperature control. Along with Outdoor-Air Processing Units, we also offer Heat Reclaim Ventilator systems. The Heat Reclaim Ventilator VAM-GJ series units in particular have been praised for their compactness, energy conservation and extensive operation range of outdoor temperatures. This series provides higher enthalpy efficiency *,¹due to the greatly enhanced performance of the thin film element. Furthermore, improved external static pressure *2 offers more flexibility for installation. The Heat Reclaim Ventilator VKM-GAM series units, equipped with a DX-coil and a humidifier, provide further advanced features, such as temperature adjustment to suit conditions indoors and to prevent cold air from blowing on people directly during heating operation. The series also realises significant energy savings by exercising heat recovery.

*1 For models: VAM150/250/350/650/800/1000/2000GJVE

★2 For models: VAM150/350/500GJVE

| | | Outdoor-Air | | Heat Reclai | m Ventilator | |
|--------------------|------------------------------------|---|---|-------------|----------------------------------|--|
| | | Processing Unit | VKM-GAM Type | VKM-GA Type | VAM-GJ Type | |
| | | Ventilation Humidification Air Processing* | Ventilation Humidification Air Processing* | | Ventilation Humidification | |
| | | | VV. | | 00 | |
| | Refrigerant Piping | Connectable | Conne | ctable | Not connectable | |
| Connections Wiring | | Connectable | Conne | ctable | Connectable | |
| system | After-cool & After-heat Control | Available | Available | | Not available | |
| Heat Exchar | nge Element | _ | Energy savings obtained | | Energy savings obtained | |
| Humidifier | | _ | Fitted | _ | _ | |
| High Efficien | ncy Filter | Option | Opt | ion | Option | |
| Ventilation S | ystem | Air supply only | Air supply & | air exhaust | Air supply & air exhaust | |
| Power Supp | ly | 220-240 V, 50 Hz | 220-240 | V, 50 Hz | 220-240 V/220 V, 50/60 Hz | |
| | | | | | 150 m³/h 250 m³/h 350 m³/h | |
| | | | 500 | m³/h | 500 m³/h 650 m³/h | |
| Airflow Rate | | | 800 | m³/h | 650 m³/h 800 m³/h | |
| | | 1080 m ³ /h | 1000 | | 1000 m³/h | |
| | | 1680 m ³ /h | | | 1500 m³/h | |
| | | 2100 m ³ /h | | | 2000 m ³ /h | |

^{*}Refers to bringing outdoor air to near indoor temperature and delivering to a room.

Outdoor-Air Processing Unit

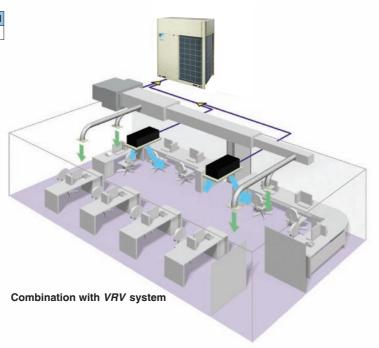
Combine fresh air treatment and air conditioning, supplied from a single system.

Lineup

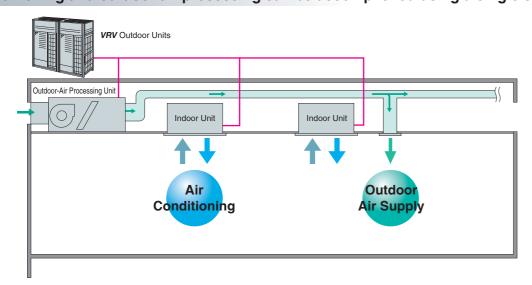
| Model Name | FXMQ125MFV1 | FXMQ200MFV1 | FXMQ250MFV1 |
|----------------|-------------|-------------|-------------|
| Capacity Index | 125 | 200 | 250 |
| | | | |



Fresh air treatment and air conditioning can be achieved with a single system by using heat pump technology—without the usual troublesome air supply and air discharge balance design. Fan coil units for air conditioning and an outdoor-air processing unit can be connected to the same refrigerant line. The results are enhanced design flexibility and a significant reduction in total system costs.



Air conditioning and outdoor air processing can be accomplished using a single system.



Connection Conditions

The following restrictions must be observed in order to maintain the indoor units connected to the same system.

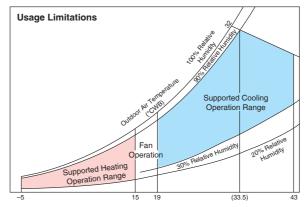
- When outdoor-air processing units are connected, the total connection capacity index must be 50% to 100% of the capacity index of the outdoor units.
- When outdoor-air processing units and standard indoor units are connected, the total connection capacity index of the outdoor-air processing units must not
 exceed 30% of the capacity index of the outdoor units.
 Because connection is possible depending on conditions ever when the capacity index of outdoor-air processing units exceeds 30% of the capacity index of the
 outdoor units, contact your local distributor.
- Outdoor-air processing units can be used without indoor units.

- The unit introduces outdoor air and adjusts the outdoor air temperature via fixed discharge temperature control, thereby reducing the air conditioning load.
- * The system can operate with outdoor-air temperatures ranging from -5 to 43°C. Heating performance is somewhat adversely affected when the outdoor-air temperature is 0°C or below.
- * When shipped from the factory, the thermostat is set at 18°C for cooling and 25°C for heating. The set temperature can be varied within the range of 13–25°C during cooling operation, and 18–30°C during heating operation, in the local setting mode using the wired remote controller. The temperature, however, is not displayed on the remote controller.
- * While in machine protection mode and depending on outdoor air conditions, discharge air temperature may not be at the set temperature.
- * The fan stops when operating in defrosting, oil returning and hot start operations. The fan also may stop due to mechanical protection control.
- Ceiling mounted duct units with three differing capacities are available. These can be connected to VRV series outdoor units to meet a variety of different requirements.

Airflow rate

| FXMQ125MFV1 | 1,080 m³/h |
|-------------|-------------------------|
| FXMQ200MFV1 | 1,680 m³/h |
| FXMQ250MFV1 | 2,100 m ³ /h |

- Optional equipment includes long-life filters.
- Compatible with outdoor temperatures from -5°C to 43°C.



Note:

- The data shown in the graph illustrates the supported operation ranges under the following conditions.
 Indoor and Outdoor Unit
 - Effective piping length: 7.5 m
- Height differential: 0 m
- The discharge temperature can be set using the remote controller. However, the actual temperature may not match the temperature setting under some circumstances due to the outdoor-air processing load or mechanical protection controls.
- The system will not operate in fan mode when the outdoor air temperature is 5°C or below.

- High-performance filters with dust collection efficiencies (JIS calorimetry) of 90% and 65% are also available as options.
- As with the VRV system, a variety of control systems can be deployed, including remote control from distances of up to 500 m.
- * Group control is not possible between this unit and standard type indoor units. Connect remote controllers to each unit.



BRC1E63
"Nav Ease"
(Wired remote controller)

- The "self-diagnosis function" indicates the occurrence and nature of abnormalities in the system by displaying codes on the remote controller.
- A central control system compatible with the VRV system can be installed.
- * It is not possible to change the discharge air temperature settings from the central control system.
- * Do not associate this equipment into zones with standard indoor units, as central control will not be possible.



DCS302CA61
Central remote controller
(option)

 As with the VRV system, the equipment employs the "super wiring system" so that the wiring linking indoor and outdoor units can also be utilised for central control.

Note

- * Linked control of the product and the Heat Reclaim Ventilator is not supported.
- * This equipment is intended for the treatment of outdoor air only. It is not to be used for maintaining indoor air temperature. Install and use with standard indoor units. Be sure to position the air discharge openings of the product in positions where the airflow will not blow on people directly. When outdoor-air processing is in excess, the unit switches to thermo-off mode, and outdoor air flows into the room directly.
- For outdoor ducts, be sure to provide heat insulation to prevent condensation.
- Group control of the product and the standard indoor units is not supported. A separate remote controller should be connected to each individual unit.
- The system will not operate in fan mode when the outdoor air temperature is 5°C or below.
- * If the product is allowed to operate 24 hours a day, maintenance (part replacement, etc.) must be performed periodically.
- Temperature setting and Power Proportional Distribution (PPD) are not possible even if the intelligent Touch Controller or the intelligent Touch Manager is installed.
- The remote controller wired to the outdoor-air processing unit must not be set as the master remote controller. Otherwise, when set to "Auto," the operation mode will switch according to the outdoor air conditions, regardless of the indoor temperature.

Standard Specifications

Indoor unit

| | Туре | | | | Ceiling Mounted Duct Type | | | | | | |
|--------------------|--------------------------|---------|---------|-------------------|---|------------------------|--|--|--|--|--|
| | Model | | | FXMQ125MFV1 | FXMQ200MFV1 | FXMQ250MFV1 | | | | | |
| Power su | ipply | | | 1-phase | e 220-240 V (also required for indoor units |), 50 Hz | | | | | |
| Cooling | apacity *1 | | Btu/h | 47,800 | 76,400 | 95,500 | | | | | |
| Cooling | араспу і | | kW | 14.0 | 22.4 | 28.0 | | | | | |
| Heating o | capacity *1 | | Btu/h | 30,400 | 47,400 | 59,400 | | | | | |
| ricating c | papacity i | | kW | 8.9 | 13.9 | 17.4 | | | | | |
| Power co | nsumption | | kW | 0.359 | 0.359 0.548 0.638 | | | | | | |
| Casing | | | | | Galvanised steel plate | | | | | | |
| Dimensio | ons (HxWxD) | | mm | 470X744X1,100 | 470X1,3 | 80X1,100 | | | | | |
| | Motor output | | kW | | 0.380 | | | | | | |
| Fan | Airflow rate | | l/s | 300 | 466 | 583 | | | | | |
| | 7 iiiiow rate | | m³/min | 18 | 28 | 35 | | | | | |
| | External static pressure | 240 V | Pa | 225 | 275 | 255 | | | | | |
| Air filter | | | | *2 | | | | | | | |
| . | Liquid | | mm | | φ 9.5 (flare) | | | | | | |
| Refrigerant piping | Gas | | mm | φ 15.9 (flare) | φ 19.1 (brazing) | zing) φ 22.2 (brazing) | | | | | |
| 1111 3 | Drain | | mm | | PS1B female thread | | | | | | |
| Machine | weight | | kg | 86 | 1 | 23 | | | | | |
| Sound le | vel *3 | 240 V | dB(A) | 43 | 4 | 18 | | | | | |
| Connecta | able outdoor units * | 4 | | 6 class and above | 8 class and above | 10 class and above | | | | | |
| Operation ra | ange | | Cooling | | 19 to 43°C | | | | | | |
| (Fan mode of | operation between 15 an | d 19°C) | Heating | | -5 to 15°C | | | | | | |
| Range of | the discharge | | Cooling | 13 to 25°C | | | | | | | |
| temperatu | | | Heating | | 18 to 30°C | | | | | | |

- Note: *1. Specifications are based on the following conditions:
- 1. Specifications are based on the following conditions:
 Cooling: Outdoor temp. of 35°CDB, 28°CWB (68% RH), and discharge temp. of 18°CDB.
 Heating: Outdoor temp. of 0°CDB, -2.9°CWB (50% RH), and discharge temp. of 25°CDB.
 Equivalent reference piping length: 7.5 m (0 m horizontal)

 2. An intake filter is not supplied, so be sure to install the optional long-life filter or

- high-efficiency filter. Please mount it in the duct system of the suction side.

 Select a dust collection efficiency (gravity method) of 50% or more.

 3. Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.

 These values are normally somewhat higher during actual operation as a result of ambient

. Some options may not be used in combination.

Operating sound may increase somewhat depending on the options used.

*4. It is possible to connect to the outdoor unit if the total capacity of the indoor units is 50% to 1.10% of the capacity index of the outdoor unit.
 *5. Local setting mode. Not displayed on the remote controller.
 • This equipment cannot be incorporated into the remote group control of the VRV system.

Options

Indoor unit

| | | Model | FXMQ125MFV1 | FXMQ200MFV1 | FXMQ250MFV1 | | | | | |
|-------------------|-----------------------|------------------------------|-------------|-------------------|-------------|--|--|--|--|--|
| | Operation remo | te controller | | BRC1E63 / BRC2E61 | | | | | | |
| ntro | Central remote | controller | DCS302CA61 | | | | | | | |
| 00/2 | Unified ON/OFF | controller | | DCS301BA61 | | | | | | |
| atior | Schedule timer | | | DST301BA61 | | | | | | |
| Operation/control | Wiring adaptor fo | or electrical appendices (1) | | KRP2A61 | | | | | | |
| | Wiring adaptor fo | or electrical appendices (2) | KRP4AA51 | | | | | | | |
| | Long-life replac | ement filter | KAFJ371L140 | KAFJ371M280 | | | | | | |
| Filters | High-efficiency | Colourimetric method 65% | KAFJ372L140 | KAFJ372M280 | | | | | | |
| 분 | filter | Colourimetric method 90% | KAFJ373L140 | KAFJ37 | 73M280 | | | | | |
| | Filter chamber | *1 | KDJ3705L140 | KDJ370 | 05L280 | | | | | |
| PN | /12.5 filtration unit | *2 | | BAF429A20A | | | | | | |
| PN | //2.5 with activate | d carbon filtration unit *2 | BAF429A20AC | | | | | | | |
| Dr | ain pump kit | | KDU30L250VE | | | | | | | |
| Ac | laptor for wiring | | | KRP1B61 | | | | | | |

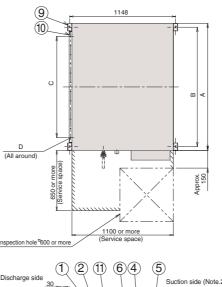
- Note: *1. Filter chamber has a suction-type flange. (Main unit does not.)

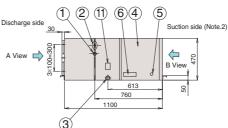
 Dimensions and weight of the equipment may vary depending on the options used.

 Some options may not be usable due to the equipment installation conditions, so please confirm prior to ordering.
 - *2. Refer to page 168-170 for details.

Dimensions

FXMQ125/200/250MFV1





*These diagrams are based on FXMQ200 and FXMQ250MFV1.

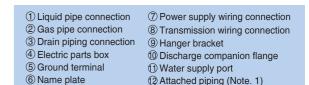
Local connection piping size

| Model | Gas piping diameter | Liquid piping diameter |
|-------------|-----------------------------|------------------------|
| FXMQ125MFV1 | φ 15.9 | ϕ 9.5 |
| FXMQ200MFV1 | ϕ 19.1 attached piping | ϕ 9.5 |
| FXMQ250MFV1 | ϕ 22.2 attached piping | ϕ 9.5 |

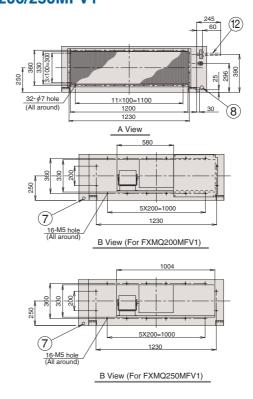
Table of dimensions

| Model | Α | В | С | D |
|-------------|------|------|-------------|-----------------------|
| FXMQ125MFV1 | 744 | 685 | 5X100=500 | 20-φ4.7 hole |
| FXMQ200MFV1 | 1380 | 1296 | 11X100=1100 | 32- <i>ϕ</i> 4.7 hole |
| FXMQ250MFV1 | 1380 | 1296 | 11X100=1100 | 32- ø 4.7 hole |

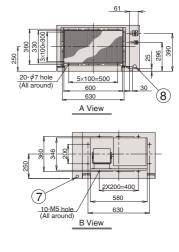
- 1. The attached piping in the diagram is for FXMQ200MFV1 and FXMQ250MFV1 only. The gas piping connection port (② in the diagram) has a different bore form with FXMQ125MFV1.
- 2. An air filter is not supplied with this unit. Be sure to mount an air filter in the suction side. [Use a filter with dust collection efficiency of at least 50% (gravimetric method). This is available as an option.]
- 3. For outdoor ducts, be sure to provide heat insulation to prevent condensation.



FXMQ200/250MFV1

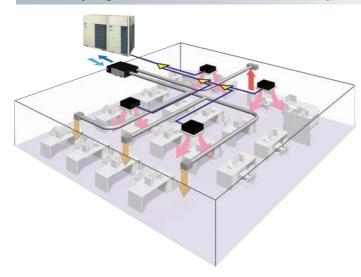


FXMQ125MFV1



Heat Reclaim Ventilator with DX-Coil and Humidifier — VKM series

The Heat Reclaim Ventilator lineup features the DX-coil in response to recently diversifying outdoor air introduction requirements.



Efficient outdoor air introduction is possible

The Heat Reclaim Ventilator (VKM series) series introduces fresh outdoor air with minimum heat losses, while a wide variety of features respond to customer requirements.

Lineup

| With | n DX Coil & Hu | ımidifier Type | • |
|----------------|----------------|----------------|-------------|
| Model Name | VKM50GAMV1 | VKM80GAMV1 | VKM100GAMV1 |
| Capacity Index | 31.25 | 50 | 62.5 |

| | With DX Co | oil Type | |
|----------------|------------|-----------|------------|
| Model Name | VKM50GAV1 | VKM80GAV1 | VKM100GAV1 |
| Capacity Index | 31.25 | 50 | 62.5 |



Humidifier

The lineup includes models with a humidifier, in response to diversifying customer requirements. (VKM50/80/100GAMV1 only)

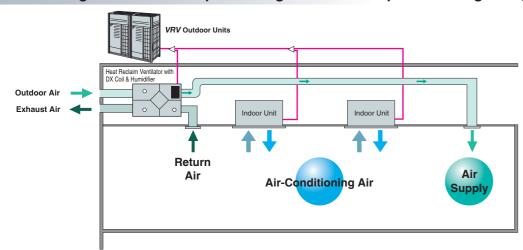
DX-coil

The Heat Reclaim Ventilator features DX-coil that contributes to the prevention of cold airflow hitting people directly during heating operation, due to the after-cool, after-heat operations done beforehand.

High static pressure

High external static pressure means enhanced design flexibility.

Air conditioning and outdoor air processing can be accomplished using a single system.

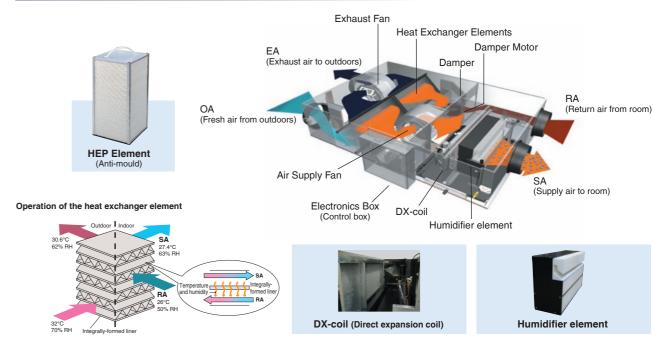


Connection Conditions

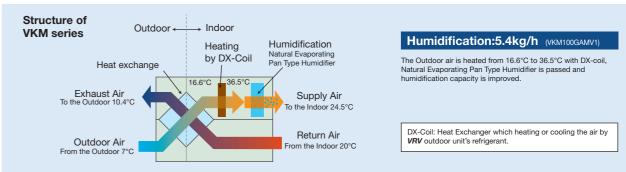
The following restrictions must be observed in order to maintain the indoor units connected to the same system.

• When the Heat Reclaim Ventilator VKM series units are connected, the total connection capacity index must be 50% to 130% of the capacity index of the outdoor units.

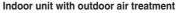
A compact unit packed with Daikin's cutting-edge technologies



Heating and humidification process



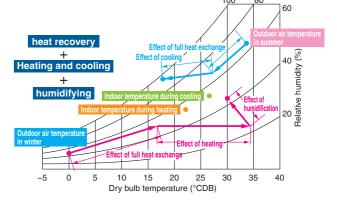
Efficient outdoor air introduction with heat exchanger and cooling/heating operation



Using outdoor air, the temperature can be brought near room temperature with minimal cooling capacity through the use of outdoor air.

Other features

- Integrated system includes ventilation and humidifying operations.
- Ventilation, cooling/heating and humidifying are possible with one remote controller.



Specifications

| МС | DDEL | | | VKM50GAMV1* | VKM80GAMV1 * | VKM100GAMV1* | VKM50GAV1 | VKM80GAV1 | VKM100GAV1 | |
|---|--------------|----------------------------|---------------------------|---|-----------------|-----------------------|---------------------|---------------|------------|--|
| Refrigerant | | | | | | R-4 | 10A | | | |
| Power Supply | | | | | | 1-phase, 220-2 | 40 V, 50 Hz | | | |
| | I Ilkua biab | Airflow rate | (m3/h)/(l/s) | 500/138 | 750/208 | 950/263 | 500/138 | 750/208 | 950/263 | |
| | Ultra-nign | Static pressure | Pa | 160 | 140 | 110 | 180 | 170 | 150 | |
| Perigerant Power Supply Airflow Rate & Static Pressure (Note 7) Power Consumption Fan Type Motor Output Sound Level (Note 5) 220/230/240 V) Humidification Capacity (Note Femp. Exchange Efficiency (Cooling) Enthalpy Exchange Efficiency (Heating) Casing Insulating Material Heat Exchanger Element Air Filter DX-coil Capacity | Llimb | Airflow rate | (m ³ /h)/(ℓ/s) | 500/138 | 750/208 | 950/263 | 500/138 | 750/208 | 950/263 | |
| Pressure (Note 7) | Supply | 120 | 90 | 70 | 150 | 120 | 100 | | | |
| | 1 | Airflow rate | (m3/h)/(l/s) | 440/122 | 640/177 | 820/227 | 440/122 | 640/177 | 820/227 | |
| | Low | Static pressure | Pa | 100 | 70 | 60 | 110 | 80 | 70 | |
| | Heat | Ultra-high | | 560 | 620 | 670 | 560 | 620 | 670 | |
| | | High | w | 490 | 560 | 570 | 490 | 560 | 570 | |
| D | mode | Low | | 420 | 470 | 480 | 420 | 470 | 480 | |
| Power Consumption | | Ultra-high | | 560 | 620 | 670 | 560 | 620 | 670 | |
| | | High | w | 490 | 560 | 570 | 490 | 560 | 570 | |
| | IIIoue | Low | | 420 | 470 | 480 | 420 | 470 | 480 | |
| Fan Type | | - | | | | Sirocc | o Fan | | | |
| Motor Output | | | kW | 0.280 x 2 | 0.280 x 2 | 0.280 x 2 | 0.280 x 2 | 0.280 x 2 | 0.280 x 2 | |
| | Heat | Ultra-high | | 37/37.5/38 | 38.5/39/40 | 39/39.5/40 | 38/38.5/39 | 40/41/41.5 | 40/40.5/41 | |
| | | High | dB(A) | 35/35.5/36 | 36/37/37.5 | 37/37.5/38 | 36/36.5/37 | 37.5/38/39 | 38/38.5/39 | |
| Sound Level (Note 5) | mode | | , , , , | 32/33/34 | 33/34/35.5 | 34/34.5/35.5 | 33.5/34.5/35.5 | 34.5/36/37 | 35/36/36.5 | |
| (220/230/240 V) | | Ultra-high | | 37/37.5/38 | 38.5/39/40 | 39/39.5/40 | 38/38.5/39 | 40/41/41.5 | 40/40.5/41 | |
| | | High | dB(A) | 35/35.5/36 | 36/37/37.5 | 37/37.5/38 | 36/36.5/37 | 37.5/38/39 | 38/38.5/39 | |
| | mode | | ` ´ | 32/33/34 | 33/34/35.5 | 34/34.5/35.5 | 33.5/34.5/35.5 | 34.5/36/37 | 35/36/36.5 | |
| Humidification Capacity (Note | e 4) | <u> </u> | ka/h | 2.7 | 4.0 | 5.4 | _ | _ | _ | |
| , (| | | | 76 | 78 | 74 | 76 | 78 | 74 | |
| Temp. Exchange | | | % | 76 | 78 | 74 | 76 | 78 | 74 | |
| Efficiency | | | | 77.5 | 79 | 76.5 | 77.5 | 79 | 76.5 | |
| | Ultra-high | | | 64 | 66 | 62 | 64 | 66 | 62 | |
| Enthalpy Exchange | _ | | % | 64 | 66 | 62 | 64 | 66 | 62 | |
| Efficiency (Cooling) | _ | | | 67 | 68 | 66 | 67 | 68 | 66 | |
| | Ultra-high | | | 67 | 71 | 65 | 67 | 71 | 65 | |
| Enthalpy Exchange | | | % | 67 | 71 | 65 | 67 | 71 | 65 | |
| Efficiency (Heating) | _ | | | 69 | 73 | 69 | 69 | 73 | 69 | |
| Casing | | | l | | | Galvanised | Steel Plate | | | |
| | | | | | | Self-Extinguishab | | | | |
| | | | | | Air to Air Cros | s Flow Total Heat (\$ | | eat) Exchange | | |
| | | | | | | pecially Processed | | | | |
| Air Filter | | | | | | Multidirectional | | - | | |
| | Cooling (No | ite 2) | | 2.8 | 4.5 | 5.6 | 2.8 | 4.5 | 5.6 | |
| Capacity | - | | kW | 3.2 | 5.0 | 6.4 | 3.2 | 5.0 | 6.4 | |
| | | | | 387 | 387 | 387 | 387 | 387 | 387 | |
| Dimensions | | | mm | 1,764 | 1,764 | 1,764 | 1,764 | 1,764 | 1,764 | |
| | | | | 832 | 1,214 | 1,214 | 832 | 1,214 | 1,214 | |
| Connection Duct Diameter | | | mm | <i>\$</i> 200 | - | 250 | <i>\$</i> 200 | φ2 | | |
| | | Net 102 120 125 96 109 114 | | | | | | | | |
| Machine Weight | | | kg | 107 | 129 | 134 | | | | |
| | | ` ′ | | , | | | 80%RH or less | | | |
| Unit Ambient Condition | | OA (Note 9) | | 0°C–40°CDB, 80%RH or less -15°C–40°CDB, 80%RH or less | | | | | | |
| | | RA (Note 9) | | | | | 80%RH or less | | | |
| | | 1 17 (14016 9) | | | | 0 0-40 ODB, | 00 /01 11 1 01 1033 | | | |

- Note: 1. Cooling and heating capacities are based on the following conditions. Fan is based on High and Ultra-high.

 When calculating the capacity as indoor units, use the following figures: VKM50GAMV1/GV1: 3.5 kW, VKM80GAMV1/GV1: 5.6 kW, VKM100GAMV1/GV1: 7.0 kW

 2. Indoor temperature: 27°CDB, 19°CWB, Outdoor temperature: 35°CDB

 3. Indoor temperature: 27°CDB, 0°CWB, Outdoor temperature: 35°CWB

 4. Humidifying capacity is based on the following conditions: Indoor temperature: 20°CDB, 15°CWB, Outdoor temperature: 7°CDB, 6°CWB

 5. The operating sound measured at the point 1.5 m below the centre of the unit is converted to that measured in an anechoic chambar built in accordance with the JIS C 1502 conditions. The actual operating sound varies depending on the surrounding conditions (near running unit's sound, reflected sound and so on) and is normally higher than this value. reflected sound and so on) and is normally higher than this value. For operation in a quiet room, it is required to take measures to lower the sound.
 - For details, refer to the Engineering Data.

 6. The noise level at the air discharge port is about 8–11 dB(A) or higher than the unit's operating

 - sound.

 For operation in a quiet room, it is required to take measures to lower the sound.

 7. Airflow rate can be changed over to Low mode or High mode.

 8. In case of holding full water in humidifier.

 - 9. OA; fresh air from outdoor, RA; return air from room
- Specifications, design and information here are subject to change without notice.
 Power consumption and efficiency depend on the above value of airflow rate.

- 12. Temperature exchange efficiency is the mean value for Cooling and Heating. Efficiency is measured under the following condition: Ratio of rated external static pressure outdoor to indoor is kept constant at 7 to 1.
- In heating operation, freezing of the outdoor unit's coil increases. Heating capability decreases and
- the system goes into defrost operation. During defrost operation, the fans of the unit continues driving (factory setting). The purpose of this is to maintain the amount of ventilation and humidifying.

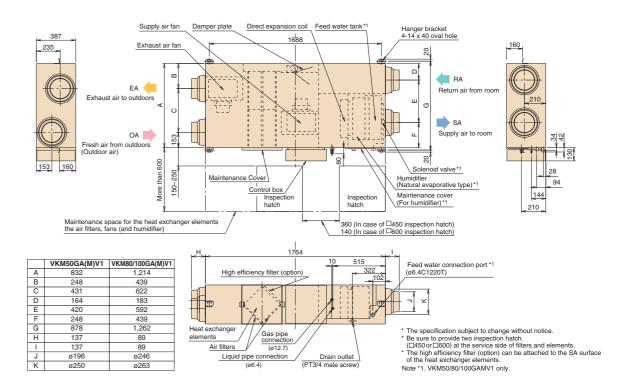
 14. When connecting with a VRV system heat recovery outdoor unit and bringing the RA (exhaust gas intake) of this unit directly in from the ceiling, connect to a BS unit identical to the VRV indoor unit (master unit), and use group-linked operation. (See the Engineering Data for details.)

 15. When connecting the indoor unit directly to the duct, always use the same system on the indoor unit are with the outdoor with preferre group-linked operation and make the directly dust connecting and makes the directly dust connecting the second or the connection and makes the directly dust connecting the second or the connection and makes the directly dust connecting the second or the connection and makes the directly dust connecting the second or the connection and makes the directly dust connecting the second or the connection and makes the directly dust connecting the second or the connection and makes the directly dust connection.
- as with the outdoor unit, perform group-linked operation, and make the direct duct connection settings from the remote controller. (Mode No. "17 (27)" First code No. "5" Second code No. "6".) Also, do not connect to the outlet side of the indoor unit. Depending on the fan strength and statio pressure, the unit might back up.
- ★ Feed clean water (city water, tap water or equivalent). Dirty water may clog the valve or cause dirt deposits in the water container, resulting in poor humidifier performance. (Never use any cooling tower water and heating-purpose water.) Also, if the supply water is hard water, use a water softener because of short life.
- * Life of humidifying element is about 3 years (4,000 hours) under the supply water conditions of hardness: 150 mg/l. (Life of humidifying element is about 1 year (1,500 hours) under the supply water conditions of hardness: 400 mg/l.)

 Annual operating hours: 10 hours/day x 26 days/month x 5 months = 1,300 hours

Dimensions

VKM50/80/100GA(M)V1



Options

| Ite | m | | _ | Туре | | | | | | | VKM5 | 0/80/1 | 00GA | (M)V1 | | | | | | |
|-------------|--|--|-----------------------|----------------------------------|-------------------|----------------------|------------------------|--------|----------------------|--------------------|---------------------|---------|----------------------|---------|----------------------|---------|--------------------|---------------------------------|-----------------------|---------|
| | Re | emote o | contr | oller | | BRC1E63 / BRC2E61 *1 | | | | | | | | | | | | | | |
| | | a Anna Para al | Reside | ential central remote controller | | DCS303A51 *2 | | | | | | | | | | | | | | |
| | | ntralised ntrolling | Centr | ral remote controller | | DCS302CA61 | | | | | | | | | | | | | | |
| | dev | | Unifie | ed ON/OFF controller | | DCS301BA61 | | | | | | | | | | | | | | |
| ø | | | Sche | edule timer | | | | | | | | DST30 | 1BA61 | | | | | | | |
| device | | Wiring appen | | otor for electrical | | KRP2A61 | | | | | | | | | | | | | | |
| g | 5 | For hun | nidifier | running ON signal output | | KRP50-2 | | | | | | | | | | | | | | |
| 늘 | Adaptor | For he | or heater control kit | | | BRP4A50 | | | | | | | | | | | | | | |
| Controlling | Board | For wiring Type (indoor unit of VRV | | FXFSQ-A | FXFQ-P | FXZQ-A2 | FXUQ-A | FXCQ-A | I⊢ X⊢()_Δ | FXDQ-PD FXDQ-ND | FXDQ-T | FXSQ-PA | FXDYQ-MA | FXMQ-PA | FXMQ-P | FXHQ-MA | FXHQ-A | $I \vdash X \Delta () - \Delta$ | FXLQ-MA FXNQ-MA | |
| | S | | | | KRP1C11A★ | KRP1C63* | KRP1BA57★ | - | KRP1B61★ | - | KRP1B56★ | KRP1 | C64* | | | | | BA54 | - | KRP1B61 |
| | Installation box for adaptor PCB \$\frac{1}{2}\$ | | | | Note 2, 3 KRP1 | | Note 4, 5 KRP1BA101 | | Note 2, 3 KRP1B96 | | Note 4 KRP1BA101 | BRP9A90 | Note 2, 3 KRP4A98 | - | Note 2, 3 KRP4A97 | BRP9A90 | Note 3 KRP1CA93 | Note 3 KRP1CA93A | Note 2, 3 KRP4AA93 | _ |

- Note: 1. Installation box is necessary for each adaptor marked ★.
 - Up to 2 adaptors can be fixed for each installation box.
 Only one installation box can be installed for each indoor unit
 - 4. Up to 2 installation boxes can be installed for each indoor unit.
- 5. *1 Necessary when operating a Heat Reclaim Ventilator (VKM) independently. When operating interlocked with other air conditioners, use the remote controllers of the air conditioners.

 *2 For residential use only. When connected with a Heat Reclaim Ventilator (VKM), you can only switch the
- power ON/OFF. Cannot be used with other centralised control equipment.

| Ite | m | Туре | VKM50GA(M)V1 | VKM80GA(M)V1 VKM100GA(M) | | | | | | |
|----------|---------------------|----------------------------|--------------|--------------------------|--------|--|--|--|--|--|
| le le | Cilonoou | | _ | KDDM2 | 24B100 | | | | | |
| function | Silencer | Nominal pipe diameter mm | _ | φ 2 | 50 | | | | | |
| 1= | Air suction/ | White | K-DGL200B | K-DG | L250B | | | | | |
| ona | Discharge grille | Nominal pipe diameter mm | φ200 | φ 2 | 50 | | | | | |
| ditional | High efficiency | filter | KAF242J80M | KAF242J100M | | | | | | |
| Ag | Air filter for rep | lacement | KAF241G80M | KAF241 | G100M | | | | | |
| Fle | Flexible duct (1 m) | | K-FDS201D | K-FDS | S251D | | | | | |
| Fle | xible duct (2 m) | | K-FDS202D | K-FDS252D | | | | | | |

■ Heat Reclaim Ventilator — VAM series

The Heat Reclaim Ventilator creates a high-quality environment by interlocking with the air conditioner

VAM150GJVE, VAM250GJVE, VAM350GJVE, VAM500GJVE, VAM650GJVE, VAM800GJVE, VAM1000GJVE, VAM1500GJVE, VAM2000GJVE

Improved Enthalpy Efficiency*1 Higher External Static Pressure* **Enhanced Energy Saving Functions**

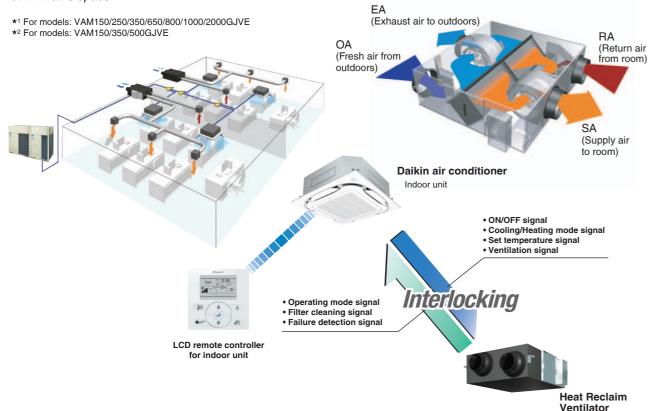




Heat Reclaim Ventilator remote controller BRC301B61 (Option)

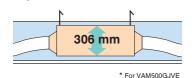
This remote controller is used in case of independent operation of Heat Reclaim Ventilator

This VAM series provides higher enthalpy efficiency ★1, due to the greatly enhanced performance of the thin film element. Furthermore, improved external static pressure ★2 offers more flexibility for installation. Along with these three outstanding improvements, the nighttime free cooling operation contributes to energy conservation and more comfortable space.



Compact Equipment

With a height of just 306 mm, the unit easily fits in limited spaces, such as above ceilings

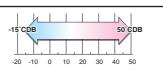


Energy Conservation

Air conditioning load reduced by approximately 31%!

Cold Climate Compatible

Standard operation at temperatures down to -15°C.



Air conditioning load reduced by approximately 31%!

Total heat exchange ventilation

This unit recovers heat energy lost through ventilation and curbs room temperature changes caused by ventilation, thereby conserving energy and reducing the load on the air conditioning

Enthalpy efficiency drastically improved by employing thin film element! (VAM-GJ model)

Due to the thinner film..

Application: Tokyo office building

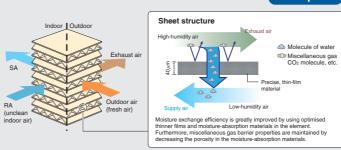
Ventilation volume: 25 m³/h

BH winter 22°C 40% BH

•Decreases the moisture resistance of the partition sheets drastically.

•Realises more space for extra layers in the element resulting in increased effective area that supply and exhaust air can be exposed to.

Moisture absorption increased by approx. 10%!

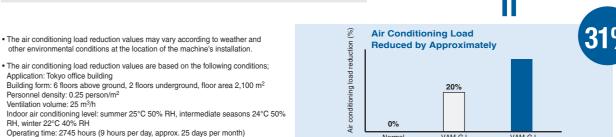


Auto-ventilation Mode Changeover Switching

Automatically switches the ventilation mode (Total Heat Exchange Mode/Bypass Mode) according to the operating status of the air conditioner.

Pre-cool, **Pre-heat Control**

Reduces air conditioning load by not running the Heat Reclaim Ventilator while air is still clean soon after the air conditioner is turned ON.



Nighttime free cooling operation*1

Building Mechanical and Electrical Engineers Association

Calculation method: simulation based on "MICRO-HASP/1982" of the Japan

Nighttime free cooling operation is an energy-conserving function that works at night when air conditioners are off. By ventilating rooms containing office equipment that raises the room

temperature, nighttime free cooling operation reduces the cooling load when air conditioners are turned on in the morning. It also alleviates feelings of discomfort in the morning caused by heat accumulated during the night. •Nighttime free cooling operation only works to cool and if connected to

•Nighttime free cooling operation is set to "off" in the factory settings, so if you wish to use it, request your dealer to turn it on.

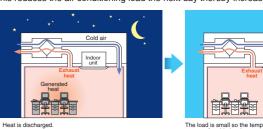
- *1 This function can be operated only when interlocked with air conditioners.
- *2 Value is based on the following conditions:
 Cooling operation performed from April to October

Building Multi or VRV systems.

 Calculated for air conditioning sensible heat load only (latent heat load not included).

The indoor accumulated heat is discharged at night.

This reduces the air conditioning load the next day thereby increasing efficiency.

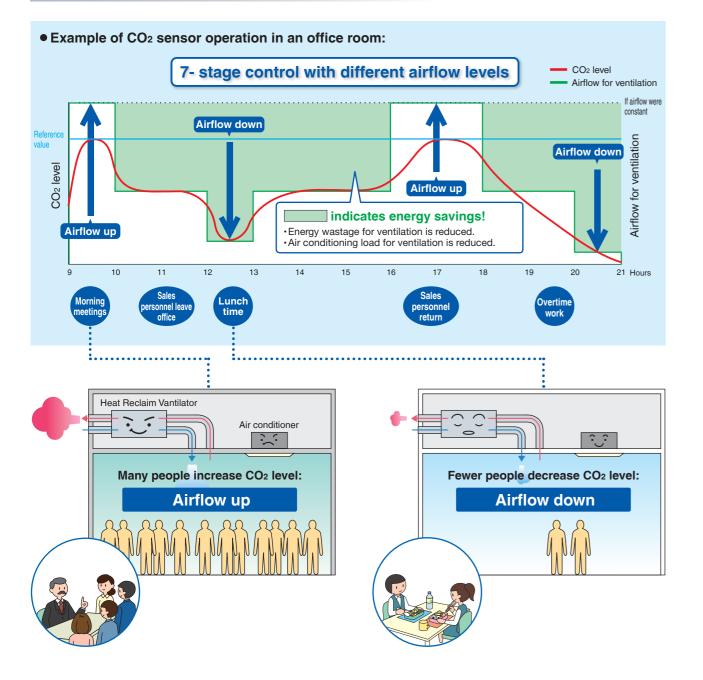


approx. **5%***2

■ Heat Reclaim Ventilator — VAM series

CO² Sensor Optional Kit Connection

The CO₂ sensor controls airflow so that it best matches the changes in CO₂ level. This prevents energy losses from over-ventilation while maintaining indoor air quality with optional CO2 sensor.



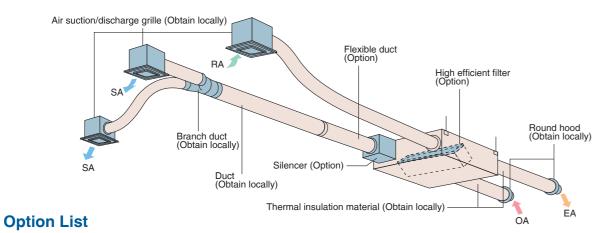
Specifications

| | ı | MODEL | | | VAM150GJVE | VAM250GJVE | VAM350GJVE | VAM500GJVE | VAM650GJVE | VAM800GJVE | VAM1000GJVE | VAM1500GJVE | VAM2000GJVE |
|--|-----------------|-------------------|------------|-------------------|------------|-------------------|-------------------------|------------------|---|---------------|-----------------|---------------|-----------------|
| Power | Supply | / | | | | | | 1-phase, 22 | 20-240 V/220 \ | V, 50/60 Hz | | | |
| | | | Ultra-High | | 79 | 75 | 79 | 74 | 75 | 72 | 78 | 72 | 77 |
| Power Supp Temp. Excha Efficiency Enthalpy Exchange Efficiency Power Consumption Sound Level Casing Insulation M. Dimensions Machine We Heat Exchar Heat Exchar Air Filter | | nge | High | % | 79 | 75 | 79 | 74 | 75 | 72 | 78 | 72 | 77 |
| EIIICIEI | icy | | Low | | 84 | 79 | 82 | 80 | 74 75 72 78 72 77 80 77 74 80.5 75.5 79 67 67.5 65 70 65 72 67 67.5 66.5 70 65 72 74 71.5 67.5 72.5 67 75 55 61 61 64 61 62 55 61 61 64 61 62 248 342 599 635 1,145 1,289 225 300 517 567 991 1,151 128 196 435 476 835 966 248 342 599 635 1,145 1,289 225 300 517 567 991 1,151 128 196 435 476 835 966 33-35.5 34-36 39-40.5 39.5-41.5 39.5-41.5 41.5-43.5 | | | | |
| | | | Ultra-High | | 72 | 71 | 70 | 67 | 67.5 | 65 | 70 | 65 | 72 |
| | | For Heating | High | % | 72 | 71 | 70 | 67 | 67.5 | 65 | 70 | 65 | 72 |
| | | | Low | | 76 | 74 | 77 | 74 | 71.5 | 67.5 | 72.5 | 67 | 75 |
| | | | Ultra-High | | 66 | 63 | 66 | 55 | 61 | 61 | 64 | 61 | 62 |
| | | For Cooling | High | % | 66 | 63 | 66 | 55 | 61 | 61 | 64 | 61 | 62 |
| | | | Low | | 70 | 66 | 70 | 59 | 64 | 64 | 68.5 | 64 | 66 |
| | | Heat | Ultra-High | | 125 | 137 | 200 | 248 | 342 | 599 | 635 | 1,145 | 1,289 |
| | | Exchange | High | w | 111 | 120 | 182 | 225 | 300 | 517 | 567 | 991 | 1,151 |
| Power | | Mode | Low | | 57 | 60 | 122 | 128 | 196 | 435 | 476 | 835 | 966 |
| Consur | nption | | Ultra-High | | 125 | 137 | 200 | 248 | 342 | 599 | 635 | 1,145 | 1,289 |
| | | Bypass Mode | High | W | 111 | 120 | 182 | 225 | 300 | 517 | 567 | 991 | 1,151 |
| | | | Low | | 57 | 60 | 122 | 128 | 196 | 435 | 476 | 835 | 966 |
| | | Heat | Ultra-High | | 27-28.5 | 27-29 | 31.5-33 | 33-35.5 | 34-36 | 39-40.5 | 39.5-41.5 | 39.5-41.5 | 41.5-43.5 |
| | | Exchange | High | dB(A) | 26-27.5 | 26-27.5 | 30-31.5 | 31.5-34 | 33-34.5 | 37-39.5 | 37.5-39.5 | 37.5-39.5 | 39-43 |
| Cound | Lovel | Mode | Low | | 20.5-21.5 | 21-22 | 23-25 | 25-28.5 | 27.5-29.5 | 35-37.5 | 35-37.5 | 35-37.5 | 36-39 |
| Journa | revei | Dumana | Ultra-High | | 28.5-29.5 | 28.5-30.5 | 33-34.5 | 34.5-36 | 35-37.5 | 40.5-42 | 40.5-42.5 | 41-43 | 43-45.5 |
| | | Bypass Mode | High | dB(A) | 27.5-28.5 | 27.5-29 | 31.5-33 | 33-34.5 | 33-35.5 | 38.5-40 | 38.5-40.5 | 39.5-41 | 40.5-45 |
| | | | Low | | 22.5-23.5 | 22.5-23 | 24.5-26.5 | 25.5-28.5 | 27.5-30.5 | 36-38.5 | 36-38.5 | 36.5-38 | 37.5-39.5 |
| Casing | 9 | | | | | | | Gal | vanised steel p | olate | | | |
| Insulat | tion Ma | terial | | | | | | Self-extingu | ishable polyure | ethane foam | | | |
| Dimen | sions (| HXWXD) | | mm | 278×8 | 10×551 | 306×87 | 79×800 | 338×973×832 | 387×1,111×832 | 387×1,111×1,214 | 785×1,619×832 | 785×1,619×1,214 |
| Machi | ne Wei | gh | | kg | 2 | 4 | 3 | 2 | 45 | 55 | 67 | 129 | 157 |
| Heat E | Exchanç | ge System | | | | | Air to air cro | ss flow total he | eat (Sensible h | eat+latent he | at) exchange | | |
| Heat E | Exchanç | ge Element | Materi | ial | | | | Specially prod | cessed nonflar | nmable paper | | | |
| Air Filt | er | | | | | | | Multidire | ectional fibrous | fleeces | | | |
| | Туре | | | | | | | | Sirocco fan | | | | |
| | | | Ultra-High | | 150 | 250 | 350 | 500 | 650 | 800 | 1,000 | 1,500 | 2,000 |
| | | | High | m ³ /h | 150 | 250 | 350 | 500 | 650 | 800 | 1,000 | 1,500 | 2,000 |
| | Airflow | v Rato | Low | | 100 | 155 | 230 | 320 | 500 | 700 | 860 | 1,320 | 1,720 |
| | Allilov | v i iaio | Ultra-High | | 41 | 69 | 97 | 138 | 180 | 222 | 277 | 416 | 555 |
| Fan | | | High | ℓ/s | 41 | 69 | 97 | 138 | 180 | 222 | 277 | 416 | 555 |
| | | | Low | | 27 | 43 | 63 | 88 | 138 | 194 | 238 | 366 | 477 |
| | F | 1 04 .: | Ultra-High | | 120 | 70 | 169 | 105 | 85 | 133 | 168 | 112 | 116 |
| | Exterr Press | nal Static ure | High | Pa | 106 | 54 | 141 | 66 | 53 | 92 | 110 | 73 | 58 |
| | | | Low | | 56 | 24 | 67 | 32 | 35 | 72 | 85 | 56 | 45 |
| | Moto | r Output | | kW | 0.03 | 30×2 | 0.09 | 0×2 | 0.140×2 | 0.28 | 80×2 | 0.28 | 80×4 |
| Conn | ection [| Ouct Diamet | ter | mm | φ100 | φ | φ 150 φ 200 φ 250 φ 350 | | | | | | 350 |
| Unit A | Ambien | t Condition | | | | | | -15°C-5 | 0°CDB, 80%R | H or less | | | |
| | _ | | | | | entro of the hode | | | | | | | |

- Note: 1. Sound level is measured at 1.5 m below the centre of the body.
 - 2. Airflow rate can be changed over to Low mode or High mode
- 3. Sound level is measured in an anechoic chamber. Sound level generally becomes greater than this value depending on the operating conditions, reflected sound, and peripheral noise.
- The sound level at the air discharge port is about 8 dB(A) higher than the unit's sound level.
 The specifications, designs and information given here are subject to change without notice.
- 6. Temperature Exchange Efficiency is the mean value between cooling and heating.
- Efficiency is measured under the following conditions: Batio of rated external static pressure has been maintained as follows: outdoor side to indoor side = 7 to 1. 8. In conformance with JIS standards (JIS B 8628), operating sound level is based on the value when one unit is operated, with the value converted for an anechoic
- chamber. This is transmission sound from the main unit, and does not include sound from the discharge grille. Thus it is normal for the sound to be louder than the indicated value when the unit is actually installed.
- Sound level from the discharge port causes the value to be approximately 8 dB(A) (models with the airflow rate of less than 150 to 500 m³/h) to approximately 11 dB(A) (models with the airflow rate of 650 m³/h or more) greater than the indicated value. Furthermore, fan rotation and noise from the discharge grille may increase depending on the on-site duct resistance conditions. Please consider noise countermeasures when installing the unit.
- 10. With large models in particular (1500 and 2000 m³/h models), if the supply air (SA) grille is installed near the main unit, the noise of the main unit may be heard from the discharge grille via the duct, and this will result in a marked increase in noise. In such cases, if peripheral effects are included (such as reverberation of the floor and walls, combination with other equipment, and background noise), sound level may be as much as 15 dB(A) higher than the indicated value. When installing a large model, please provide as much separation as possible between the main unit and the discharge grille. If the equipment and discharge grille are near each other, please consider countermeasures such as the following:
 •Use a sound-muffling box, flexible duct and sound-muffling air supply/discharge grilles
- •Decentralised installation of discharge grilles
- 11. When installing in a location with particularly low background noise such as a classroom, please consider the following measures to avoid transmission sound from the main unit: •Use of ceiling materials with high sound insulating properties (high transmission loss)

•Methods of blocking sound transmission, for example, by adding sound insulating materials around the bottom of the sound source Alternatively, consider supplementary methods such as installing the equipment in a different location (corridor, etc.)

Options



| Ite | m | | | Туре | | VAM150 · 250 · 350 · 500 · 650 · 800 · 1000 · 1500 · 2000 GJVE | | | | | | | | | | | | | | |
|--------------|--|--------------|--------|--------------------------------------|-------------------|---|------------------------|----------|----------------------|----------|---------------------|--------|----------------------|----------|----------------------|---------|--------------------|---------------------|-----------------------|---|
| | Не | at Reclai | m Ver | ntilator remote controller | | | | | | | | BRC3 | 01B61 | | | | | | | |
| | C | atualia a d | Reside | ntial central remote controller | | DCS303A51 Note 1 | | | | | | | | | | | | | | |
| | | ntralised | Centr | al remote controller | DCS302CA61 | | | | | | | | | | | | | | | |
| | controlling device Unified ON/OFF controller | | | | | | | | | | | DCS30 | 1BA61 | 1 | | | | | | |
| | Schedule timer | | | | | | | | | | | DST30 | 1BA61 | | | | | | | |
| device | | Wiring appen | | otor for electrical | | KRP2A61 | | | | | | | | | | | | | | |
| | _ | For hu | midif | ier | | KRP50-2 | | | | | | | | | | | | | | |
| l <u>≔</u> , | oto | Installa | ation | box for adaptor PCB | | KRP50-2A90 (Mounted electric component assy of Heat Reclaim Ventilator) | | | | | | | | | | | | | | |
| 2 | dab | For he | ater | control kit | | BRP4A50 | | | | | | | | | | | | | | |
| Controlling | PC Board A | For wi | ring | Type (indoor unit of VRV) | FXFSQ-A | FXFQ-P | FXZQ-A2 | | | | FXDQ-ND | FXDQ-T | | | | | | FXHQ-A | | |
| | | | | KRP1C11A★ | KRP1C63★ | KRP1BA57★ | - | KRP1B61★ | _ | KRP1B56★ | KRP1 | C64* | | KRP1C64★ | | | BA54 | - | KRP1B61 | |
| | Installation box for adaptor PCB★ | | | oox for adaptor PCB★ | Note 2, 3 KRP1 | | Note 4, 5 KRP1BA101 | | Note 2, 3 KRP1B96 | - | Note 4 KRP1BA101 | | Note 2, 3 KRP4A98 | - | Note 2, 3 KRP4A97 | BRP9A90 | Note 3 KRP1CA93 | Note 3 KRP1CA93A | Note 2, 3 KRP4AA93 | - |

- Note: 1. Installation box

 is necessary for each adaptor marked

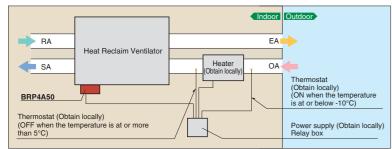
 ...
 - Up to 2 adaptors can be fixed for each installation box.
 Only one installation box can be installed for each indoor unit
 - Up to 2 installation boxes can be installed for each indoor unit
- 5. *1 Necessary when operating a Heat Reclaim Ventilator (VKM) independently. When operating interlocked

| Item | | Туре | VAM150GJVE | VAM250GJVE | VAM350GJVE | VAM500GJVE | VAM650GJVE | VAM800GJVE | VAM1000GJVE | VAM1500GJVE | VAM2000GJVE | |
|---------------------|----------------|---------------------------|---|---|------------|------------|------------|------------|--------------|--------------|---------------|--|
| la L | Silencer | | | _ | | KDDM24B50 | K | DDM24B10 | KDDM24B100X2 | | | |
| iji | | Nominal pipe diameter mm | | _ | | φ 20 | | | φ 2: | | | |
| Additional function | High efficie | ency filter | KAF24 | 2J25M | KAF24 | 2J50M | | | | KAF242J80MX2 | | |
| & 4 | Air filter fo | r replacement | KAF24 | 1J25M | KAF24 | 1H50M | KAF241J65M | KAF241J80M | KAF241J100M | KAF241J80MX2 | KAF241J100MX2 | |
| Flexible | e duct (1 m) | | K-FDS101D | K-FDS | S151D | K-FDS201D | | | K-FDS251D | | | |
| Flexible | e duct (2 m) | | K-FDS102D | K-FDS | S152D | K-FDS | S202D | | K-FDS | S252D | | |
| Duct a | dantor | | | _ | | | | | | | | |
| Ducta | ααριοι | Nominal pipe diameter mm | | _ | | | | | | | | |
| CO ₂ se | ensor | | BRYMA65 BRYMA100 | | | | | | | BRYMA65 | BRYMA100 | |
| | filtration un | | BAF249A150 BAF249A300 BAF249A350 BAF249A500 — BAF42 | | | | | | 9A20A | | | |
| PM2.5 v | with activated | d carbon filtration unit* | BAF249A150C | BAF249A150C BAF249A300C BAF249A350C BAF249A500C — BAF429A | | | | | A20AC | | | |

^{*}Refer to page 168-170 for details.

PC board adaptor for heater control kit (BRP4A50)

When the installation of an electric heater is required in a cold region, this adaptor with an internal timer function eliminates the complicated timer connecting work that was necessary with conventional heaters.



Note when installing

- Examine fully an installation place and specification for using the electric heater based on the standard and regulation of each country.
- Supply the electric heater and safety production devices such as a relay and a thermostat, etc of which qualities satisfy the standard and regulation of each country at site.
- Use a non-inflammable connecting duct to the electric heater. Be sure to allow 2 m or more between the electric heater and the Heat Reclaim Ventilator for safety
- For the Heat Reclaim Ventilator, use a different power supply from that of the electric heater and install a circuit breaker for each.

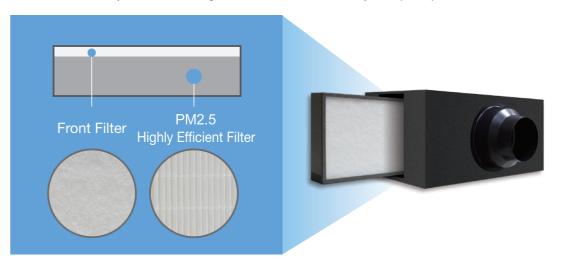
PM2.5 filtration unit (Option) for VAM / FXMQ-MF series

Rapid urbanization has increased industrial and automobile emissions, resulting in higher PM2.5 levels. This has become the source of respiratory diseases and poses a serious threat to a long term health issue. As the air quality has worsened, research has shown the harmful effects of PM2.5 on the health of the general public.

Double-layered efficient filtration

PM2.5 filters are double-layered.

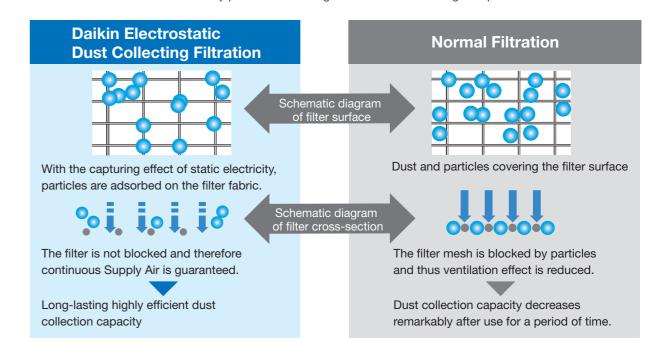
- 1. The front filter effectively removes large particles.
- 2. The PM2.5 filter layer contains a large amount of static electricity to capture particulate matter efficiently.



Electrostatic dust collection filter: more efficient and longer lasting effect

The PM2.5 filter layer contains a large amount of static electricity to capture particulate matter efficiently, including those smaller than the grid mesh.

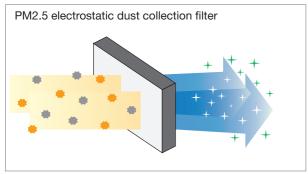
The filter is difficult to be blocked by particles and has good ventilation and long life span.



PM2.5 filtration unit (Option) for VAM / FXMQ-MF series

Filtering PM2.5 efficiently for healthier and more comfortable environments

The PM2.5 filtering series heat reclaim ventilator is equipped with an electrostatic dust collection filter for PM2.5 removal. This filter removes 99% or more of 2.5 µm.





^{*}Test results by the Heating, Ventilation and Air Conditioning Lab at Tongji University Test environment: temperature 25-26°CDB, humidity 58-60%RH

Extra-High Performance Filter Against Sulfur Oxides and Nitrogen Oxides

Effective Use of Active Carbon Material to Enlarge the Adsorption Area

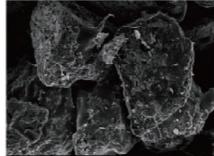
As an expert in the research and development of filters, DAIKIN has specifically selected active carbon material as the main substance to constitute the filter against sulfur oxides and nitrogen oxides. The material's usable pore surface is fully exploited, thus extending the filter's durability.

Note: Surface area of active carbon: $700 \text{ m}^2/\text{g}$ Given a newspaper page of 40.6 cm wide by 54.6 cm long, each gram of active carbon has a surface area of 3,000 newspaper pages.

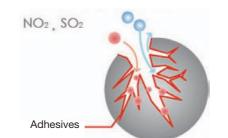
Intelligent Identification, Super-effective Adhesion

The special substance added in the pores of active carbon can exclusively target sulfur oxide and nitrogen oxide gases and stick to them without blocking other unidentified gases. This ensures long durability of the filter.

Note: The figures are based on in-house tests under the following lab conditions: temperature 22 to 25°CDB, humidity 35 to 40% RH, air flow rate 0.2 m/s.



Unidentified Gases



PM2.5 Filtration Unit

| Models | | | BAF249A150 | BAF249A300 | BAF249A350 | BAF249A500 | |
|--------------------------------|---------------------------------------|------------|-----------------|-----------------|-----------------|-----------------|--|
| Heat Reclaim Ventilator Models | | VAM150GJVE | VAM250GJVE | VAM350GJVE | VAM500GJVE | | |
| Dimensions (H × | Dimensions $(H \times W \times D)$ mm | | 220 x 603 x 366 | 220 x 603 x 366 | 300 x 623 x 366 | 300 x 623 x 366 | |
| Connection Duct | Connection Duct Diameter mm | | Ø100 | Ø150 | Ø150 | Ø200 | |
| Airflow Rate | Airflow Rate m ³ /h | | 150 | 250 | 350 | 500 | |
| | Initial Pressure Drop | Pa | 34 | 30 | 31 | 42 | |
| PM2.5 Filter | Filter Lifetime ¹ | | 1 year | | | | |
| | Filtration Efficiency ² | | 99% or higher | | | | |
| | Filter Material No. 3 | BAF24 | 4A300 | BAF244A500 | | | |

Note: 1. Annual usage: 400 hrs/month x 12 months = 4.800 hrs

2. 99% or higher removal rate of ultra-fine particles with diameters of 2.5 μm or more.

3. Filters come with applicable filtration units with a one-year life. They can be purchased and replaced according to their model numbers

PM2.5 with Activated Carbon Filtration Unit

| | Models | BAF249A150C | BAF249A300C | BAF249A350C | BAF249A500C | | | |
|----------------------------|---|--------------------|-------------|-------------|-------------|-------------|--|--|
| Heat Reclaim Ve | ntilator Models | | VAM150GJVE | VAM250GJVE | VAM350GJVE | VAM500GJVE | | |
| Dimensions (H × | $W \times D$) | mm | 220×603×366 | 220×603×366 | 300×623×366 | 300×623×366 | | |
| Connection Duct | Diameter | mm | Ø100 | Ø150 | Ø150 | Ø200 | | |
| Airflow Rate | Airflow Rate m³/h | | 150 | 250 | 350 | 500 | | |
| | Initial Pressure Drop | Pa | 34 | 30 | 31 | 42 | | |
| PM2.5 Filter | Filter Lifetime ¹ | | 1 year | | | | | |
| PIVIZ.5 FIILEI | Filtration Efficiency ² | 99% or higher | | | | | | |
| | Filter Material No. 3 | BAF244A300 BAF244A | | | 4A500 | | | |
| A attract and | Initial Pressure Drop | Pa | 3 | 5 | 5 | 9 | | |
| Activated Carbon Filter | Filter Lifetime | | 1 year | | | | | |
| Carbon Filler | Filter Material No. 3 | BAF24 | 4A300C | BAF244A500C | | | | |
| Total Initial Pressure Dr | rop for PM2.5 with Activated Carbon Filtration Unit | Pa | 37 | 35 | 36 | 51 | | |

Note: 1. Annual usage: 400 hrs / month x 12 months = 4.800 hrs.

2. 99% or higher removal rate of ultra-fine particles with diameters of 2.5 μm or more.

3. Filters come with applicable filtration units with a one-year life. They can be purchased and replaced according to their model numbers.

Individual Control Systems for VRV Indoor System

"Nav Ease" (Wired remote controller) (Option)



BRC1E63



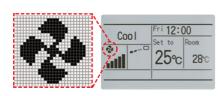
BRC1F61 (Only for FXEQ series

This simple, contemporary remote controller with fresh white colour matches your interior design. The clear, backlight display with large easy-to-read text makes navigation easy and provides one-touch control over your in-home comfort.

Clear display

Dot matrix display

 \cdot A combination of fine dots enables various icons. Large text display is easy to see.



Backlight display

· Backlight display helps operating in dark rooms.



Simple operation

Large buttons and arrow keys

 Large buttons and arrow keys enable easy operation. Basic setting such as fan speed and temperature can be intuitively operated. For other settings, select the function from the menu list.

Guide on display

 \cdot The display gives an explanation of each setting for easy operation.

250 ps



Energy saving

Setpoint range set

- · Saves energy by limiting the min. and max. set temperature.
- · Avoids excessive cooling or heating.
- This function is convenient when the remote controller is installed at a place where any number of people may operate it.



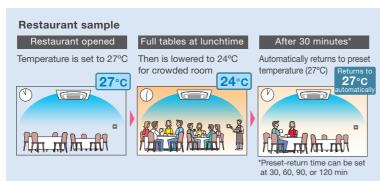
Off timer

- Turns off the air conditioner after a preset period of time.
- Period can be preset from 30 to 180 minutes in 10-minute increments.

Setpoint auto reset

- Even if the set temperature is changed, the new set temperature returns to the previous preset value after a preset duration of time.
- · Period selectable from 30, 60, 90, or 120 min.





Convenience

Setback (default: OFF)

Maintains the room temperature in a specific range during unoccupied period by temporarily starting air conditioner that was turned OFF.

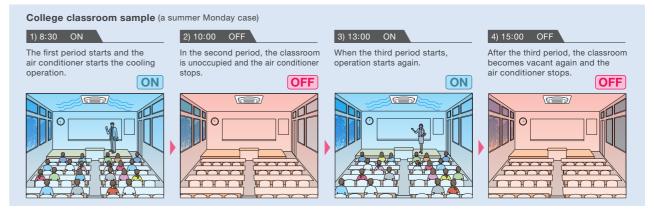
Ex) Setback temperature Cooling: 35°C Recovery differential Cooling: -2°C When the room temperature goes above 35°C, the air conditioner starts operating in Cooling automatically. When room temprature reaches 33°C, the air conditioner returns OFF.

Setback temperature differential Cooling 33 - 37°C -2 -8°C Heating 10 - 15°C +2 - +8°C

Weekly schedule

- · 5 actions per day can be scheduled for each day of the week.
- · The holiday function will disable schedule timer for the days that have been set as holiday.
- · 3 independent schedules can be set. (e.g. summer, winter, mid-season)





Auto display off

- · While operation is stopping, LCD display can be turned OFF. It will be displayed again if any button is pressed.
- · Period can be preset from 10, 30, 60 minutes, and OFF. Initial setting is 30 minutes.

Comfort

Individual airflow direction (*1)

Airflow direction can be individually adjusted for each air discharge outlet to deliver optimal air distribution that conforms to conditions for airflow direction (small and large loads).

*1. Only available for FXFSQ-A, FXCQ-A and FXUQ-A series.

•5-step airflow control (*2)

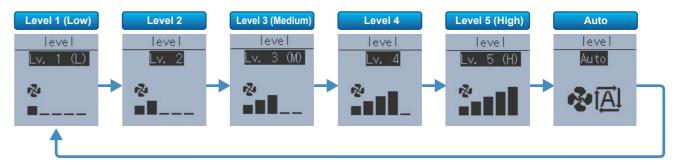
Control of airflow rate can be selected from 5-step control, which provides comfortable airflow.

*2 . The number of airflow steps differs according to the type of indoor unit. 5-step airflow is only available for FXFSQ-A, FXEQ-A and FXDQ-T series.

Auto airflow rate (*3)

Airflow rate is automatically controlled in accordance to the difference between room temperature and set temperature.

*3 .Only available for FXFSQ-A, FXCQ-A, FXDQ-T/PD/ND, FXSQ-PA, FXMQ-PA, FXUQ-A and FXAQ-A series.



Control Systems

Control Systems

Individual Control Systems for VRV Systems

Simplified remote controller (Option)



Easy operation with new intuitive design

Simple operation

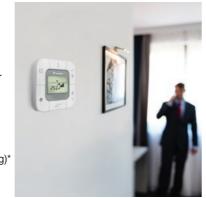
• Using only six buttons, users have direct access to basic functions. This enables them to easily set comfort to their

·ON/OFF ·Operation mode

·Temperature setting

·Airflow rate (5-step & Auto)*

·Up and down airflow direction (5-step & Swing)* ·ON/OFF timer



* The number of airflow steps and availability of auto airflow rate and swing mode depend on the type of indoor unit.

Intuitive design

• By using pictograms, the user-friendly interface enables convenient and easy operation.

Compact size

• Measuring only 85 x 85 mm, the new remote controller is extremely compact and complements any interior design.

Wireless remote controller (Option)









Signal receiver unit

BRC-C, E series

- •The wireless remote controller is supplied in a set with a signal receiver.
- Signal receiver unit of installed type is contained inside decoration panel or indoor unit.
- Shape of signal receiver unit differs according to the indoor unit.
- Note: The signal receiver unit shown in the photograph is for mounting inside the decoration panel of
- · Backlight LCD of new wireless remote controller



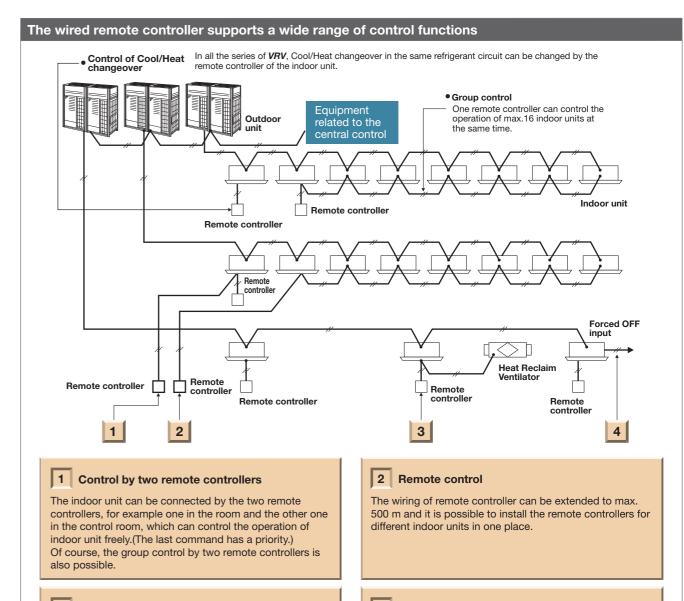
Pressing the backlight button nelps operating in dark rooms.

- A compact signal receiver unit (separate type) to be mounted into a wall or ceiling is included.
- * Wireless remote controller and signal receiver unit are sold as a set * Refer to page 194 for the name of each model.

Wide variation of remote controllers for VRV indoor units

| | FXFSQ | FXFQ | FXZQ | FXUQ | FXCQ | FXEQ | FXDQ | FXDYQ | FXSQ | FXMQ | FXHQ | FXAQ | FXL(N)Q |
|---|-------|------|------|------|------|------|------|-------|------|------|------|------|---------|
| Navigation remote controller (BRC1E63) | • | | • | • | • | | • | • | | • | • | | • |
| Simplified remote controller (BRC2E61) | | | • | • | • | • | • | • | | • | • | • | • |
| Wireless remote controller* (Installed type signal receiver unit) | • | | • | • | • | • | | | | | • | • | |
| Wireless remote controller* (Separate type signal receiver unit) | | | | | | | | | | • | | | • |

^{*}Refer to page 194 for the name of each model.



3 Control for the combined operation

The operation of Heat Reclaim Ventilator can be controlled by the remote controller of the indoor unit. Of course, the remote controller can display the time to clean the filter.

4 Expansion of system control

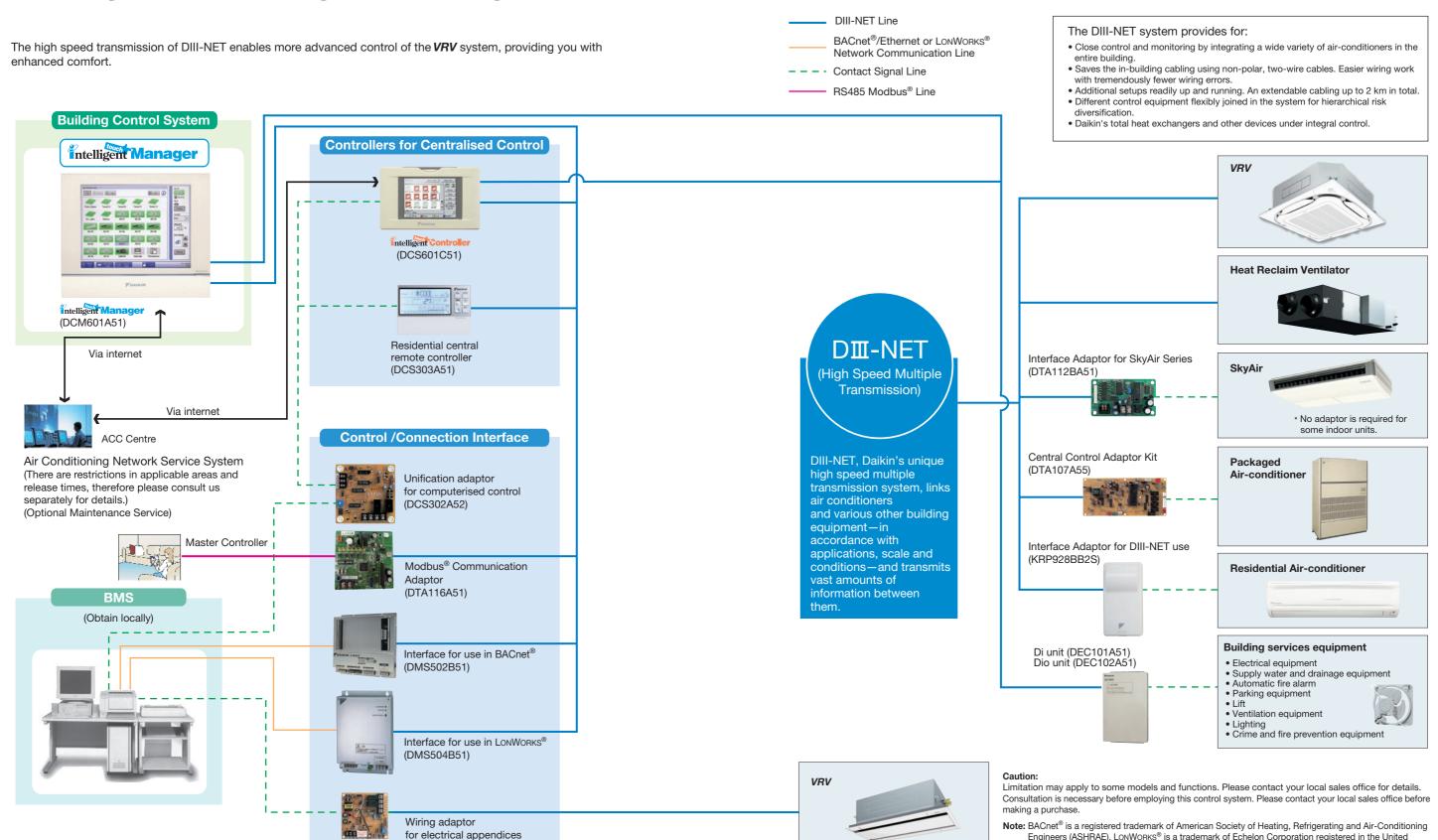
The system can be expanded to add several controllers, such as BMS, Forced OFF input and etc.

Engineers (ASHRAE). LonWorks® is a trademark of Echelon Corporation registered in the United

States and other countries. Modbus® is a registered trademark of Schneider Electric S.A.

Control Systems

■ Integrated Building Monitoring System



175 176

(KRP2A61/62/51/53)

Control Systems

Advanced Control Systems for VRV Systems

Intelligent Manager

One touch selection enables flexible control of equipment in a building.



Various types of equipment in a building can be controlled by a single controller.

Individual air-conditioning control

The flexible control achieved by the VRV system precisely meets different air conditioning needs in each room (e.g. offices, conference rooms, hotel rooms).







Lighting control DALI-compatible

DALI-compatible LED lighting systems can be controlled and monitored. Lighting control is enhanced through an interlock function with air conditioners and other functions.



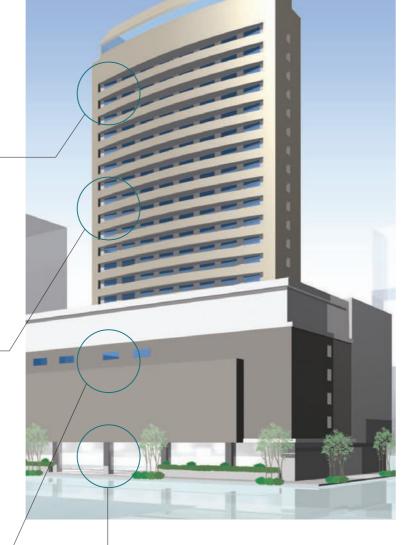


Air-conditioning control for large spaces

Air handling units can also be controlled. Large spaces, such as entrance halls and shopping malls, can be easily controlled to ensure comfort.







Building equipment control

Various types of equipment other than air conditioners, including ventilators, fans, and pumps, can also be





For Energy Saving & Comfort

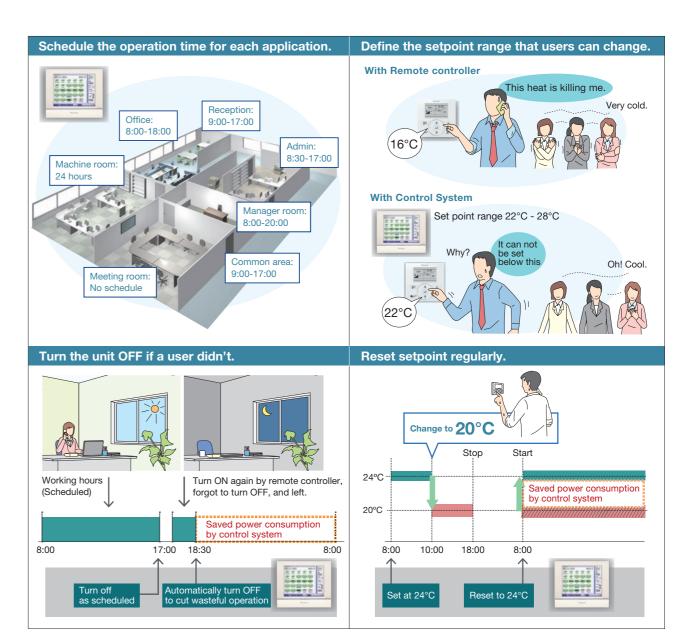
intelligent Touch Manager maximises the advantages of VRV features

intelligent Touch Manager is an advanced multi-zone controller that provides the most cost-effective way to control and monitor the Daikin VRV system.

The 10.4" LCD touch screen is easy to use with three different screen views to include the floor plan layout view, icon view and list view and menus for system configurations.

It is also easy to use with standardized remote Web Access from your PC.

It can manage a total of 650 management points consisting of up to 512 Daikin indoor unit groups (up to 1024 indoor units) along with building equipment control / monitoring with Digital Inputs / Output (Di/Dio), Analog Inputs / Output (Ai/Ao) and Pulse input (Pi) optional devices.



Advanced Control Systems for VRV Systems

In addition to switching lights on and off, advanced lighting control, such as illuminance adjustment, can be achieved

Lighting control (Option)

Connection to DALI - compatible lighting control system

Simple wiring (daisy chain) enables management of LED lighting by the *intelligent Touch Manager*.

Various air conditioning and lighting control is enabled through the interlock with occupancy sensors and illuminance sensors.

DALI-compatible

Please contact your local sales office for details.

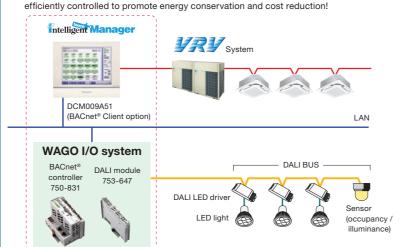
Lighting control achieved by the intelligent Touch Manager

[Operation]

- Switch-on/switch-off operation
- Illuminance (1-100%) control
- Various illuminance patterns can be registered
- Registered pattern can be selected from intelligent Touch Manager

[Monitoring]

- Switch-on/switch-off status monitoring
- Lighting abnormality monitoring
- Illuminance monitoring
- DALI occupancy sensor monitoring
- DALI illuminance sensor monitoring



Air conditioning and lighting for which power consumption is high can be

[Overview of control]

- Up to 5 DALI modules can be connected to a single BACnet® controller.
- Up to 64 DALI LED drivers (64 addresses) can be connected to a single DALI module.
- 64 DALI addresses can be freely assigned to up to 16 groups using a single DALI module. (Each group corresponds to a management point of the intelligent Touch Manager.)
- Up to 16 scenes can be set to a single DALI module.
- Up to 12 sensors (occupancy, illuminance) connected to a single DALI module.
- DALI BAS simplifies wiring and setting work by daisy chain wiring and automatic address setting.

Easy maintenance and energy saving by lighting control

Case1

Switch-on / switch-off and illuminance are controlled based on a schedule to cut wasteful power consumption.

 Failing to switch off lights is prevented



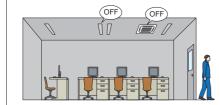


Optimal illuminance reduces energy

Casaa

Occupancy sensors are used to eliminate both wasteful lighting and air conditioning.

When a room is unoccupied, the air conditioning stops and the lighting is switched off.



Case3

Lighting abnormalities (e.g. burned-out bulbs) can be checked on the *intelligent Touch Manager* screen.

Lighting maintenance becomes easier and



Tenant Management (PPD* Option)

Reporting the power consumption of VRV system for each tenant

With the PPD function, power consumption can be calculated for each indoor unit (Option)

The energy consumption is proportionally calculated for each indoor unit. The data can be used for energy management and calculation of air conditioning usage fees for respective tenants.

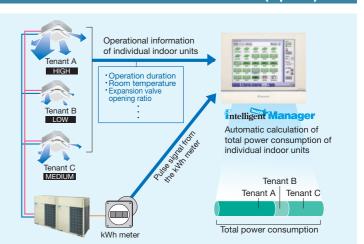
Operational information of individual indoor units are monitored, based on distribution of power consumption of outdoor units.

Daikin's PPD keeps track of power distribution for each indoor unit. It performs air conditioning billing calculations quickly and automatically.

It is easy to output PPD data.

PPD data is output in CSV format to a PC or USB memory device and can be freely processed and managed.

*PPD (Power Proportional Distribution) is Daikin's proprietary calculation method.



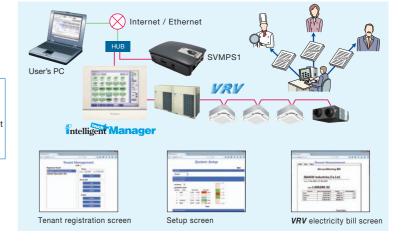
Air conditioning bills can be issued by one click

Electricity bills can be easily calculated for each tenant (Option)

The power consumption of **VRV** controlled by the intelligent Touch Manager can be easily managed for each tenant using a PC. The electricity bill settings facilitate billing work through easy calculation and issuance of **VRV** electricity bills.

[Main functions]

- Register tenants
- Set the electricity unit price for 5 time zones
 Calculate payer sensumation and electricity
- Calculate power consumption and electricity charge for each tenant
- Show aggregation results in the specified period for each tenant
 Output the results (Printout and CSV file)



Effective service functions offered to tenants

Smartphone will be a remote controller of VRV system (Option)

Users can operate and check the status of **VRV** system from their smart phones via WiFi.

It is not necessary to move where a remote controller is located with this feature.

VRV system in other rooms can be operated, and their status can be checked.

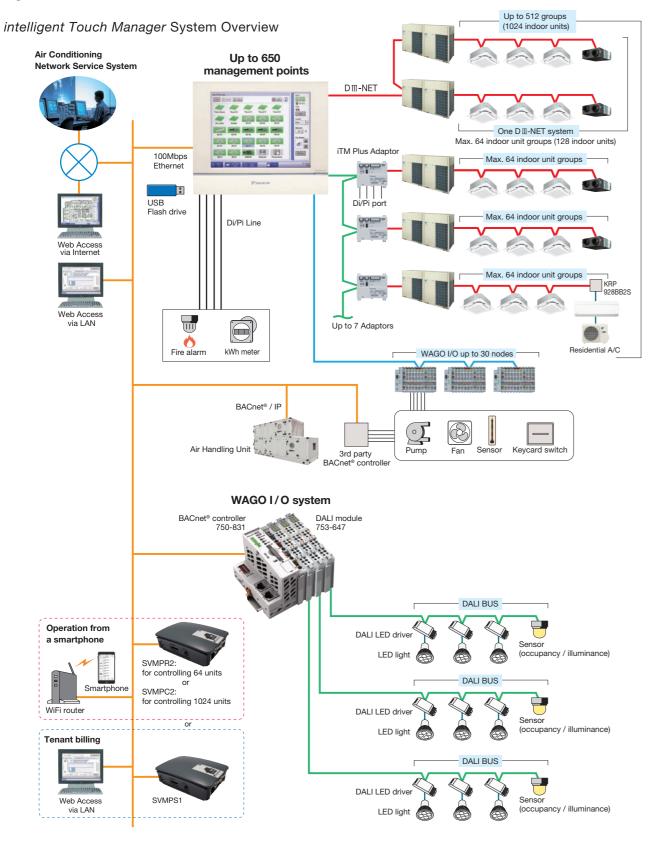
It is also possible to check if air conditioners in other rooms remain switched on etc., helping achieve energy saving.



Control Systems

Advanced Control Systems for VRV Systems

System structure



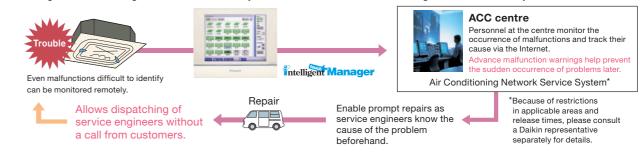
Air Conditioning Network Service System

Preventive Maintenance

The intelligent Touch Manager can be connected to Daikin's own Air Conditioning Network Service System for remote monitoring and verification of operation status for VRV system. By its ability to predict malfunctions, this service provides

Enhanced convenience with link to the Air Conditioning Network Service System

The intelligent Touch Manager connects seamlessly to Daikin's 24-hour Air Conditioning Network Service System.



Daikin Offers a Variety of Control Systems

Convenient controllers that offer more freedom to administrators



Intelligent Controller

Ease of use and expanded control functions

The user-friendly controller features colours, multilingual function, and icons in the display for ease of understanding. A wide variety of control methods can be accommodated, permitting administrators to monitor and operate the system even when they are away from the controller.

DCS601C51

Connect VRV system to your BMS via BACnet®or LONWORKS®

Compatible with BACnet® and LONWORKS®, the two leading open network comunication protocols, Daikin offers interfaces that provide a seamless connection between VRV system and your BMS.

Dedicated interfaces make Daikin air conditioners freely compatible with open networks



(Interface for use in BACnet®)

Seamless connection between VRV system and BACnet®open network protocol.



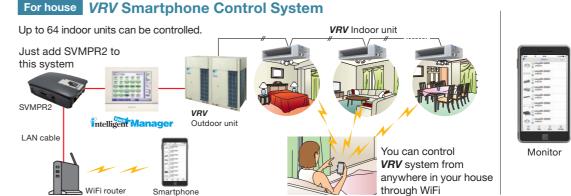
LONWORKS® Facilitating the network integration of **VRV** system and LONWORKS®

DMS504B51 (Interface for use in LONWORKS®)

Note: 1. BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

2. LONWORKS® is a trademark of Echelon Corporation registered in the United States and other countries

Smartphone will be a remote controller of VRV system (Option)



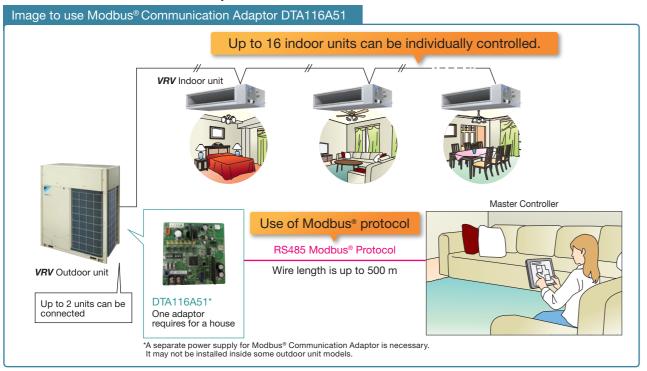


Control

Control Systems

Advanced Control Systems for VRV Systems

Modbus® Communication Adaptor



Functions

Monitor

| On/Off | On/Off status of indoor units |
|----------------------|---|
| Operation mode | Cooling, Heating, Fan, Dry, Auto (depend on indoor unit capability) |
| Setpoint | Setpoint of indoor units |
| Room temperature | Suction temperature of indoor units |
| Fan direction | Swing, Flap direction (depend on indoor unit capability) |
| Fan volume | L, M, H (depend on indoor unit capability) |
| Forced off status | Forced off status of indoor units |
| Error | Malfunction, Warning with Error code |
| Filter sign | Filter sign of indoor units |
| Communication status | Communication normal/error of indoor units |

Control

| On/Off | On/Off control of indoor units |
|-------------------|---|
| Operation mode | Cooling, Heating, Fan, Dry, Auto (depend on indoor unit capability) |
| Setpoint | Cooling/Heating setpoint |
| Fan direction | Swing, Stop, Flap direction (depend on indoor unit capability) |
| Fan volume | L, M, H (depend on indoor unit capability) |
| Filter sign reset | Reset filter sign of indoor units |

Retrieve system information

| Connected indoor units | DIII-NET address of connected indoor units can be retrieved. |
|--------------------------|--|
| Indoor unit conchilition | Indoor unit capabilities such as operation mode, |
| indoor unit capabilities | fan control setpoint HV can be retrieved |

VRV Smartphone Control System

VRV Smartphone Control System can be realized by SVMPR1 which is a new product to utilize DTA116A51.



★ Modbus® is a registered trademark of Schneider Electric S.A

VRV Tablet and Smartphone Controller: SVMPC1

The SVMPC1 is easy to install, and enables monitoring and operation of *VRV* systems via tablets and smartphones. It is optimal for centralized management of *VRV* systems in small buildings or on individual floors of a building.

Simple and easy Smart Control

- SVMPC1 is easy to install. Just add DTA116A51 to outdoor unit and connect it to controller.
- Thanks to user-friendly screen, anyone can operate easily.



- Set point range limitation and setback function achieve energy saving and comfortable air-conditioning.
- Daily air-conditioning operation is automatically done by schedule function with annual calendar.
- Quick notification of malfunction by e-mail to support quick maintenance.

Up to 32 indoor units can be controlled. SVMPC1 WiFi router URV Indoor unit VRV Indoor

Functions

| Category | Function | Detail | | | | | |
|---|--|---|--|--|--|--|--|
| Main screen | Status monitoring | On/Off, Setpoint, Operation mode, Fan step, Flap, Error, Error code, Room Temperature | | | | | |
| | Manual operation | On/Off, Setpoint, Operation mode, Fan step, Flap, Scene Control | | | | | |
| Automatic Setpoint range limitation* Cool setpoint min/max, Heat setpoint min/max | | | | | | | |
| control | Off timer* Off timer on/off, Off timer duration (5min – 12h, every 5min) | | | | | | |
| | Setback operation* | Setback setpoint range (Cool: 24-35°C, Heat: 10-20°C) | | | | | |
| | Schedule* | Action registration: Time, On/Off, Setpoint, Operation mode, Fan step, Flap, Off timer on/off, Setback setpoint | | | | | |
| | | Calendar setting: set by date or day of the week | | | | | |
| | Interlock | Interlock operation depend on equipment status | | | | | |
| System setting | | Language, Password setting, User administration*, Point setting* | | | | | |
| *: Only admin user can set. | | | | | | | |

[■] Specifications

| Category | Specification | Detail |
|-------------|-----------------------------|---|
| Connectable | Number of indoor units | Max 16 (per DTA116A51) |
| units | Number of DTA116A51 | Max 2 (maximum of 32 indoor units can be connected) |
| Connectable | Number of Tablet/Smartphone | Max 20 |
| device | Device type | iPad, iPhone, Android tablet, Android Phone, Windows Tablet, Windows Phone, Windows PC, Mac |
| | Web browser | Firefox, Chrome, Safari |

Multi Site Management System by using SVMPC1: MSMPN1



Outdoor Units

WRV H SERIES High-COP Type

| No. | No. Item | | RXYQ12AH RXYQ14AH RXYQ16AH RXYQ18AH RXYQ20AH | RXYQ22AH | RXYQ24AH | RXYQ26AH RXYQ28AH RXYQ30AH RXYQ32AH RXYQ34AH RXYQ36AH | | |
|-----|--|---------------|--|---------------------|---|--|--|--|
| 1 | Distributive piping | REFNET header | | 26M72H 8 branch) | KHRP26M22H, KHRP26M33H, (Max. 4 branch) (Max. 8 branch) KHRP26M72H, KHRP26M73H (Max. 8 branch) (Max. 8 branch) | | | |
| | | REFNET joint | KHRP26A22T, KHRP26A33T, KHRP26A72T | | KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A | | | |
| 2 | Pipe size reducer | | - | | KHRP26M73TP, KHRP26M73HP | | | |
| 3 | Outdoor unit multi connection piping kit | | BHFP22P100 | BHFP22P100 | | BHFP22P151 | | |
| 4 | Cool/Heat se | elector | | KRC19-26A | | | | |

Option PCB

| No. | Type | RXYQ12AH RXYQ14AH RXYQ16AH | RXYQ18AH RXYQ20AH RXYQ22AH | RXYQ24AH RXYQ26AH RXYQ28AH | RXYQ30AH RXYQ32AH RXYQ34AH | RXYQ36AH |
|-----|------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------|
| 1 | DIII-NET expander adaptor | | | DTA109A51 | | |
| 2 | External control adaptor | | | DTA104A61 | | |
| 3 | Modbus communication adaptor | | | DTA116A51 | | |

INVITABLES Standard Type

| No. | Type | | RXYQ6A RXYQ8A RXYQ10A | RXYQ12A RXYQ14A RXYQ16A | RXYQ18A RXYQ20A | RXYQ22A | | |
|-----|--|-----------------------------|---|--|----------------------------|--|--|--|
| 1 | Distributive piping REFNET header REFNET joint | | KHRP26M22H, KHRP26M33H (Max. 4 branch) (Max. 8 branch) | | | | | |
| | | | KHRP26A22T, KHRP26A33T | KHRP26A22T, KHRP26A33T, KHRP26A72T | | | | |
| 2 | Outdoor unit | multi connection piping kit | - BHFP22P100 | | | | | |
| 3 | Cool/Heat se | elector | KRC19-26A | | | | | |
| No. | Type lo. | | RXYQ24A | RXYQ26A RXYQ28A RXYQ30A RXYQ32A RXYQ34A RXYQ36A | RXYQ40A RXY RXYQ42A RXY | Q46A RXYQ54A Q48A RXYQ56A Q50A RXYQ58A Q52A RXYQ60A | | |

| NO. | Item | | HXYQ24A | RXYQ32A RXYQ34A RXYQ36A | RXYQ42A RXYQ44A | RXYQ50A RXYQ52A | RXYQ58A RXYQ60A | | |
|-----|---------------------------|-----------------------------|---|--|--------------------|--------------------|--------------------|--|--|
| 1 | Distributive piping | REFNET header | KHRP26M22H, KHRP26M33H, (Max. 4 branch) (Max. 8 branch) KHRP26M72H (Max. 8 branch) | KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) | | | | | |
| | | REFNET joint | | KHRP26A22T, KHRP26A33T | , KHRP26A72T, KHR | P26A73T | | | |
| 2 | Pipe size reducer KHRP26M | | | | KHRP26M73HP | | | | |
| 3 | Outdoor unit | multi connection piping kit | BHFP22P100 BHFP22P151 | | | | | | |
| 4 | Cool/Hoot on | leater | | VPC10.26A | | | | | |

Option PCB

| No. | Type | RXYQ6A RXYQ8A RXYQ10A RXYQ12A | RXYQ14A RXYQ16A RXYQ18A RXYQ20A | RXYQ22A RXYQ24A | RXYQ26A RXYQ28A RXYQ30A RXYQ32A RXYQ34A RXYQ36A | RXYQ38A RXYQ40A RXYQ42A RXYQ44A RXYQ46A RXYQ48A | RXYQ50A RXYQ52A RXYQ54A RXYQ56A RXYQ58A RXYQ60A | |
|-----|----------------------------------|--|--|--------------------|--|--|--|--|
| 1 | DIII-NET expander adaptor ★ | | | DTA109A51 | | | | |
| 2 | External control adaptor ★ | DTA104A61 | | | | | | |
| 3 | Modbus communication adaptor ★ | DTA116A51 | | | | | | |
| 4 | Option plate for control adaptor | _ | BKS26A *1 | _ | BKS26A *1 | | | |

Note: *1. This plate is necessary for each adaptor marked ★.

REFNET joint (KHRP26A22/33/72/73T)



VRV R SERIES High-COP Type

| No. | Type | | REYQ12TA REYQ14TA REYQ16TA REYQ18TA REYQ20TA | REYQ14TA REYQ16TA REYQ22TA REYQ24TA REYQ18TA | | REYQ26TA REYQ28TA REYQ30TA | REYQ32TA REYQ34TA REYQ36TA | |
|-----|-------------------|-------------|--|---|-------------|----------------------------------|--|------------|
| | | 3 Pipes | REFNET header | KHRP25M33H, KHRP25M72H (Max. 8 branch) (Max. 8 branch) | | | KHRP25M33H, KHRP25M72H (Max. 8 branch) (Max. 8 branch) KHRP25M73H (Max. 8 branch) | |
| 1 | Distributive | | REFNET joint | KHRP25A22T, KHRP25A33T, KHRP25A72T KHRP25A22T, KHRP25 | | | 5A33T, KHRP25A72T, | KHRP25A73T |
| ' | piping | 2 Pipes | REFNET header | KHRP26M33H, KHRP26M72H (Max. 8 branch) (Max. 8 branch) | | | KHRP26M33H, KHRP26M72H (Max. 8 branch) (Max. 8 branch) KHRP26M73H (Max. 8 branch) | |
| | | | REFNET joint | | KHRP26A22T, | KHRP26A33T, KHRP26A7 | 2T | |
| 2 | Pipe size reducer | | | KHRP25M72TP | | | KHRP25M72TP, KHRP25M73TP, KHRP26M73HP | |
| 3 | Outdoor unit | multi conne | ection piping kit | BHFP26P90 | BHFP26P136 | | | |

Option PCB

| No. | Type | REYQ12TA REYQ14TA REYQ16TA | REYQ18TA REYQ20TA REYQ22TA | REYQ24TA REYQ26TA REYQ28TA | REYQ30TA REYQ32TA REYQ34TA | REYQ36TA |
|-----|---------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------|
| 1 | DIII-NET expander adaptor | | | DTA109A51 | | |
| 2 | External control adaptor | | | DTA104A61 | | |

VRV R SERIES Standard Type

| No. | Type | | REYQ6TA REYQ8TA REYQ10TA | REYQ12TA REYQ14TA REYQ16TA REYQ18TA REYQ20TA | REYQ22TA | REYQ24TA | REYQ26TA REYQ28TA REYQ30TA | REYQ32TA REYQ34TA REYQ36TA | |
|-----|--|---------------------------------|--------------------------------|--|-------------|--|---|--|--------------------------|
| | | 3 Pipes stributive ping 2 Pipes | REFNET header | KHRP25M33H (Max. 8 branch) | | RP25M33H, KHRP25M72H, (Max. 8 branc x. 8 branch) (Max. 8 branch) KHRF | | KHRP25M33H, (Max. 8 branch) KHRP2: (Max. 8 | (Max. 8 branch) 5M73H |
| 1 | Distributive | | REFNET joint | KHRP25A22T, KHRP25A33T | | KHRP25A33T, 25A72T | KHRP25A22T, KHRP25A33T, KHRP25A72T, KHRP25A73T | | |
| ı | piping | | REFNET header | KHRP26M33H (Max. 8 branch) | | P26M33H, KHRP26M72H 8 branch) (Max. 8 branch) | | KHRP26M33H, KHRP26M72H (Max. 8 branch) (Max. 8 branch) KHRP26M73H (Max. 8 branch) | |
| | | | REFNET joint | KHRP26A22T, KHRP26A33T | | KHRP26A22T, KHRP26A33T, K | | HRP26A72T | |
| 2 | Pipe size reducer | | | - | KHRP25M72TP | | | KHRP25M72TP, KHRP26 | |
| 3 | Outdoor unit multi connection piping kit | | | - | - BHFP26P90 | | | | |

| | No. | Type | | | REYQ38TA REYQ40TA | REYQ44TA REYQ46TA | REYQ50TA REYQ52TA | REYQ56TA REYQ58TA | | |
|--|-------|---------------------|-------------|---------------------------------------|---|--|----------------------|----------------------|--|--|
| | | | | | REYQ42TA | REYQ48TA | REYQ54TA | REYQ60TA | | |
| | 1 1 1 | Distributive piping | 3 Pipes | REFNET header | KHRP25M33H, KHRP25M72H, KHRP25M73H (Max. 8 branch) (Max. 8 branch) (Max. 8 branch) | | | | | |
| | | | | REFNET joint | | KHRP25A22T, KHRP25A33T, KHRP25A72T, KHRP25A73T | | | | |
| | | | 2 Pipes | REFNET header | KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 8 branch) (Max. 8 branch) (Max. 8 branch) | | | | | |
| | | | | REFNET joint | | | | | | |
| | 2 | Pipe size reducer | | KHRP25M72TP, KHRP25M73TP, KHRP26M73HP | | | | | | |
| | 3 | Outdoor unit | multi conne | ection piping kit | BHFP26P136 | | | | | |

Option PCB

| No. | Type | REYQ6TA REYQ8TA REYQ10TA REYQ12TA | REYQ14TA REYQ16TA REYQ18TA REYQ20TA | REYQ22TA REYQ24TA | REYQ26TA REYQ28TA REYQ30TA REYQ32TA REYQ34TA REYQ36TA | REYQ38TA REYQ40TA REYQ42TA REYQ44TA REYQ46TA REYQ48TA | REYQ50TA REYQ52TA REYQ54TA REYQ56TA REYQ58TA REYQ60TA | |
|-----|----------------------------------|--|--|----------------------|--|--|--|--|
| 1 | DIII-NET expand adaptor ★ | | | DTA10 | 9A51 | | | |
| 2 | External control adaptor ★ | DTA104A61 | | | | | | |
| 3 | Option plate for control adaptor | - | BKS26A *1 | - | - BKS26A *1 | | | |

Note: *1. This plate is necessary for each adaptor marked ★.

Outdoor Units

VRV IV S SERIES Heat Pump

| No. | Item Type | RXYMQ3A | RXYMQ4A | RXYMQ5A | RXYMQ6A | RXYMQ8A | RXYMQ9A | |
|-----|---|----------------------------|-----------|---------|------------|---------------------|------------|--|
| 1 | Cool/Heat selector | | KRC1 | 9-26A | | _ | | |
| 1-1 | Fixing box | | KJB111A – | | | | | |
| 2 | REFNET header | KHRP26M22H (Max. 4 branch) | | | | | | |
| 2 | NETNET Header | KHRP26M33H (Max. 8 branch) | | | | | | |
| 3 | REFNET joint | | KHRP2 | 6A22T | | KHRP26A22T, | KHRP26A33T | |
| 4 | Central drain plug | | KKPJ5G280 | | KKPJ5F180 | KKPJ5G280 | | |
| 5 | Fixture for preventing overturning | KKTP5B112 KPT- | | | KPT-60B160 | PT-60B160 KKTP5B112 | | |
| 6 | Wire fixture for preventing overturning | | _ | | K-KYZP15C | | | |

VRV IV Q SERIES Heat Pump (Standard Type)

| No. | Item | Туре | RQYQ6T(E) RQYQ10T(E) | RQYQ12T(E) RQYQ14T(E) RQYQ16T(E) | | |
|-----|-------------------------------------|--------------|---|--|--|--|
| 1 | 1 Distributive REFNET header piping | | KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch) | KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) | | |
| | | REFNET joint | KHRP26A22T KHRP26A33T | KHRP26A22T, KHRP26A33T, KHRP26A72T | | |
| 2 | Cool / Heat selector | | | KRC19-26A | | |

| No. | Type | | RQYQ18TN(E) RQYQ20TN(E) | RQYQ22TN(E) | RQYQ24TN(E) RQYQ26TN(E) | RQYQ28TN(E) RQYQ30TN(E) RQYQ32TN(E) | |
|-----|--|---------------|---|--------------------|---|---|--|
| 1 | Distributive piping | REFNET header | KHRP26M22H, KHRP26M33H (Max. 4 branch) (Max. 8 branch), KHRP26M72H (Max. 8 branch) | | KHRP26M22H, KHRP26M33H, (Max. 4 branch) (Max. 8 branch) KHRP26M72H, KHRP26M73H (Max. 8 branch) (Max. 8 branch) | | |
| | | REFNET joint | KHRP26A22T, KHRP | 26A33T, KHRP26A72T | KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T | | |
| 2 | Pipe size reducer | | | _ | KHRP26M73TP, KHPR26M73HP | | |
| 3 | Outdoor unit multi connection piping kit | | BHFP22P100 | | | | |
| 4 | Cool / Heat selec | ctor | | KRC1 | 9-26A | | |

| No. | Item | Туре | RQYQ34TN(E) RQYQ36TN(E) | RQYQ38TN(E) RQYQ40TN(E) | RQYQ42TN(E) RQYQ44TN(E) | RQYQ46TN(E) RQYQ48TN(E) | | | |
|-----|---------------------|---------------------------|---|--|----------------------------|----------------------------|--|--|--|
| 1 | Distributive piping | REFNET header | KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 8 branch) | | | | | | |
| | piping | REFNET joint | | KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T | | | | | |
| 2 | Pipe size reduce | r | KHRP26M73TP, KHPR26M73HP | | | | | | |
| 3 | Outdoor unit mul | Iti connection piping kit | BHFP22P151 | | | | | | |
| 4 | Cool / Heat selec | ctor | | KRC19 | 9-26A | | | | |

VRV IV Q SERIES Heat Pump (Space Saving Type)

| No. | Item | Туре | RQYQ18T(E) RQYQ20T(E) | | | | |
|-----|----------------------------------|--------------|--|--|--|--|--|
| 1 | Disinbutive REFNET header piping | | KHRP26M22H, KHRP26M33H, KHRP26M72H (Max.4 branch) (Max.8 branch) (Max.8 branch) | | | | |
| | F-F9 | REFNET joint | KHRP26A22T, KHRP26A33T, KHRP26A72T | | | | |
| 2 | 2 Cool / Heat selector | | KRC19-26A | | | | |

| No. | Item | Туре | RQYQ30TS(E) | RQYQ32TS(E) | RQYQ34TS(E) | RQYQ36TS(E) | RQYQ38TS(E) | RQYQ40TS(E) | |
|-----|----------------------|-------------------|---|-------------|-------------|-------------|-------------|-------------|--|
| 1 | Disinbutive piping | REFNET header | KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max.4 branch) (Max.8 branch) (Max.8 branch) | | | | | | |
| | | REFNET joint | KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T | | | | | | |
| 2 | Pipe size reducer | | KHRP26M73TP, KHRP26M73HP | | | | | | |
| 3 | Outdoor unit conne | ection piping kit | BHFP22P100 | | | | | | |
| 4 | Cool / Heat selector | or | KRC19-26A | | | | | | |

| | No. | Item | Туре | RQYQ42TS(E) RQYQ44TS(E) RQYQ46TS(E) RQYQ48TS(E) | | | | |
|---|-----|------------------------------------|---------------|---|--|--|--|--|
| | 1 | Disinbutive piping | REFNET header | KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max.4 branch) (Max.8 branch) (Max.8 branch) | | | | |
| | | p.pg | REFNET joint | KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T | | | | |
| Ī | 2 | Pipe size reducer | | KHRP26M73TP, KHRP26M73HP | | | | |
| | 3 | Outdoor unit connection piping kit | | BHFP22P151 | | | | |
| [| 4 | Cool / Heat selector | | KRC19-26A | | | | |

IJヲIJ∭-Q Heat Recovery

| No. | Item | Туре | RQCEQ280P RQCEQ360P | RQCEQ460P RQCEQ500P | RQCEQ540P RQCEQ636P | RQCEQ712P RQCEQ744P RQCEQ816P RQCEQ848P |
|-----|-----------------------|---------------------|--|---|---|--|
| | Distributive piping | REFNET header | KHRP25M72H KHRP26M22H | (Max. 8 branch) (Max. 8 branch) (Max. 4 branch) (Max. 8 branch) | KHRP25M33H (Max. 8 branch) KHRP25M72H (Max. 8 branch) KHRP25M73H (Max. 8 branch) KHRP26M22H (Max. 4 branch) KHRP26M33H (Max. 8 branch) | KHRP25M33H (Max. 8 branch) KHRP25M72H (Max. 8 branch) KHRP25M73H (Max. 8 branch) KHRP26M22H (Max. 4 branch) KHRP26M33H (Max. 8 branch) KHRP26M72H (Max. 8 branch) |
| 1 | | REFNET joint | KHRP25A33T (KHRP25A72T (KHRP26A22T (| (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 4 branch) (Max. 8 branch) | KHRP25A22T (Max. 4 branch) KHRP25A33T (Max. 8 branch) KHRP25A72T (Max. 8 branch) KHRP25A73T (Max. 8 branch) KHRP26A22T (Max. 4 branch) KHRP26A33T (Max. 8 branch) | KHRP25A22T (Max. 4 branch) KHRP25A33T (Max. 8 branch) KHRP25A72T (Max. 8 branch) KHRP25A73T (Max. 8 branch) KHRP26A22T (Max. 4 branch) KHRP26A33T (Max. 8 branch) KHRP26A72T (Max. 8 branch) |
| 2 | Outdoor unit multi co | nnection piping kit | BHFP26P36C | BHFP2 | BHFP26P63C BHFP26P84C | |
| 3 | Digital pressure gaug | je kit | BHGP26A1×2 | BHGP | 26A1×3 | BHGP26A1×4 |

IN W SERIES Heat Pump / Heat Recovery

| No. | Type | | RWEYQ6T RWEYQ8T RWEYQ10T RWEYQ12T | RWEYQ14T RWEYQ16T RWEYQ18T RWEYQ20T RWEYQ22T RWEYQ24T | RWEYQ26T RWEYQ28T RWEYQ30T RWEYQ32T RWEYQ34T RWEYQ36T | | | |
|-----|-----------------------|-------------------|--|--|--|--|--|--|
| 1 | Cool/heat selector | | KRC19 | 0-26A (Applies to heat pump type only) | | | | |
| 1-1 | Fixing box | | KJB1 | KJB111A (Applies to heat pump type only) | | | | |
| 2 | Distributive piping | REFNET header | KHRP25M33H (Max. 8 branch), KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch) | KHRP25M33H (Max. 8 branch), KHRP25M72H (Max. 8 branch), KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch), KHRP26M72H (Max. 8 branch) | KHRP25M33H (Max. 8 branch), KHRP25M72H (Max. 8 branch), KHRP25M73H (Max. 8 branch), KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch), KHRP26M72H (Max. 8 branch), KHRP26M73H (Max. 8 branch) | | | |
| | | REFNET joint | KHRP25A22T, KHRP25A33T, KHRP26A22T, KHRP26A33T | KHRP25A22T, KHRP25A33T, KHRP25A72T, KHRP26A22T, KHRP26A33T, KHRP26A72T | KHRP25A22T,KHRP25A33T, KHRP25A72T, KHRP25A73T, KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T | | | |
| 3 | Outside unit multi | For heat pump | _ | BHFP22MA56 | BHFP22MA84 | | | |
| 3 | connection piping kit | For heat recovery | _ | BHFP26MA56 | BHFP26MA84 | | | |
| 4 | External control adap | otor | | DTA104A62 | | | | |
| 5 | Strainer kit | | | BWU26A15, BWU26A20 | | | | |

Note: ★1 In the case of heat recovery system, cool/heat selector cannot be connected

VRV IV W SERIES Strainer kit specifications

| Model | | BWU26A15 | BWU26A20 | |
|-------------------------|--|--------------------------|--------------------------|--|
| Pressure resistance MPa | | 1.47 | | |
| Mesh size | | 50 | 50 | |
| Connection diameter | | PT1 1/4B internal thread | PT1 1/4B internal thread | |

VRV WS SERIES

| No. | Item | Туре | RWQ3A | RWQ4A | RWQ5A | RWQ6A | | |
|-----|---------------------|---------------|---|-------|-------|-------|--|--|
| 1 | Distributive piping | REFNET header | KHRP26M22H, KHRP26M33H (Max. 4 branch) (Max. 8 branch) | | | | | |
| | | REFNET joint | KHRP26A22T | | | | | |

VRV Indoor Units

Ceiling Mounted Cassette (Round Flow with Sensing) Type



| No. | Item | | | Туре | FXFSQ25A FXFSQ32A FXFSQ40A | FXFSQ50A FXFSQ63A FXFSQ80A | FXFSQ100A FXFSQ125A FXFSQ140A | |
|-----|--|---------------------------------|---------------------------|----------------------|---|---|-------------------------------------|--|
| 1 | Decoration panel Standard panel with sensing | | Fresh white | | BYCQ125EEF | | | |
| ' | | | Black | | BYCQ125EEK | | | |
| 2 | Sealing materi | ial of air discharge outlet 1 | For usage | of 3-, 4-way flow | | KDBH551C160 | | |
| | Ocaling materi | al of all discharge outlet | For usage | of 2-way flow | | KDBH552C160 | | |
| 3 | Panel spacer | | | | | KDB55J160F | | |
| | | | Chamber | Without T-duct joint | KDDP55B160 (Components: KDDP55C160-1, KDDP55B160-2) 5 | | | |
| 4 | Fresh air intake kit | ke kit | type 2,3 | With T-duct joint | KDDP55B160K (| KDDP55B160K (Components: KDDP55C160-1, KDDP55B160K2) ⁵ | | |
| | | | | allation type 4 | KDDP55X160A | | | |
| 5 | High-efficiency filter unit ⁶ | | (Colorimetric method 65%) | | KAF5 | 56D80 | KAF556D160 | |
| 5 | (Including filte | er chamber) | (Colorimetric method 90%) | | KAF5 | 57D80 | KAF557D160 | |
| 6 | Bankaamant | high-efficiency filter 6,7 | (Colorimetric method 65%) | | KAF5 | 52D80 | KAF552D160 | |
| O | neplacement | riigii-eiliciericy liiter • | (Colorimet | ric method 90%) | KAF5 | 53D80 | KAF553D160 | |
| 7 | Filter chambe | r | | | KDDFP55C160 | | | |
| 8 | Replacement | long-life filter | | | | KAF5511D160 | | |
| 9 | Ultra long-life | filter unit (Including filter o | hamber) ⁶ | | KAF555D160 | | | |
| 10 | Replacement | ultra long-life filter 6.7 | | | KAF550D160 | | | |
| 11 | Branch duct chamber ¹ | | | KDJP | 55C80 | KDJP55C160 | | |
| 12 | Insulation kit f | for high humidity 6,8 | | | KDTP | 55K80A | KDTP55K160A | |

- Note: 1.Circulation airflow is not available with this option.

 2.When installing a fresh air intake kit (chamber type), two air outlet corners are closed.

 3.It is recommended that the volume of outdoor air introduced through the kit is limited to 10% of the maximum airflow rate of the indoor unit. Introducing higher quantities will
 - increase the operating sound and may also influence temperature sensing.

 4. The volume of fresh air for direct installation type is approximately 1% of the indoor unit airflow. The chamber type is recommended when more fresh air is necessary.
- 5.Please order using the names of both components instead of set name.6.This option cannot be installed to designer panel and auto grille panel.
- Filter chamber is required.
- 8.Please use in case temperature/humidity inside ceiling may get over 30°C, 80% RH.

Ceiling Mounted Cassette (Round Flow) Type

| No. | Item | | Туре | FXFQ25P | FXFQ32P | FXFQ40P | FXFQ50P | FXFQ63P | FXFQ80P | FXFQ100P | FXFQ125P |
|-----|--|--|--|---|------------|---------|---------|---------|---------|----------|----------|
| 1 | Decoration panel | | | BYCP125K-W1 | | | | | | | |
| 2 | Sealing material of air of | discharge outlet | | | | | KDBH5 | 5K160F | | | |
| 3 | Panel spacer | | | | | | KDB5 | 5J160F | | | |
| | | High efficiency | filter unit 65% | | | KAF5 | 56D80 | | | KAF5 | 56D160 |
| | | High efficiency | High efficiency filter unit 90% | | | KAF5 | 57D80 | | | KAF5 | 57D160 |
| | | Replacement high efficiency filter 65% | | | KAF552D80 | | | | KAF5 | 52D160 | |
| , | Filter veleted | Replacement hig | Replacement high efficiency filter 90% | | KAF553D80 | | | | KAF5 | 53D160 | |
| 4 | Filter related | Filter chamber | Filter chamber | | | | KDDFF | 255C160 | | | |
| | | Long life replacement filter | | KAF5511D160 | | | | | | | |
| | | Ultra long-life filter unit | | KAF555D160 | | | | | | | |
| | | Replacement u | Replacement ultra long-life filter | | KAF550D160 | | | | | | |
| | | | Without T-duct joint | KDDP55B160 (Components: KDDP55C160-1, KDDP55B160-2) *1 | | | | | | | |
| 5 | Fresh air intake kit | Chamber type | With T-duct joint | KDDP55B160K (Components: KDDP55C160-1, KDDP55B160K2) *1 | | | | | | | |
| | | Direct installati | on type | KDDP55X160A | | | | | | | |
| 6 | Branch duct chamber | | KDJP55B80 KDJP55B16 | | | | 55B160 | | | | |
| 7 | 7 Chamber connection kit 8 Insulation kit for high humidity | | | KKSJ55K160 | | | | | | | |
| 8 | | | | | | KDTP: | 55K80A | | | KDTP5 | 55K160A |

Note: *1. Please order using the names of both components instead of set name.

Options of Ceiling Mounted Cassette (Round Flow with Sensing) Type

Options required for specific operating environments

Ultra long-life filter unit

Even in dusty environments where the air conditioning is constantly operating, the ultra long-life filter only has to be cleaned once a year.



Dusty area: annual filter change

*For dust concentration of $0.3~mg/m^3$ (Requires separately sold Air purifier.) 1 year (Approx. 5,000 hr) \rightleftharpoons 15 hr/day x 28 day/month x 12 month/year

Ordinary store or office: filter change every 4 years

*For dust concentration of 0.15 mg/m

4 years (Approx. 10,000 hr) \(\Rightarrow\) 8 hr/day x 25 day/month x 12 month/years x 4 years

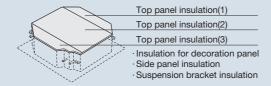
High-efficiency filter unit

Available in two types: 65% and 90% colorimetry.



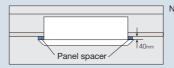
Insulation kit for high humidity

Please use if you think the temperature and humidity inside the ceiling exceeds 30°C and RH 80%, respectively.



Panel spacer

Use when only minimal space is available between drop ceilings and ceiling slabs.



Note: Some ceiling constructions may hinder installation. Contact your Daikin Dealer before installing

Sealing material of air discharge outlet

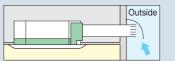
Sealing material block air discharge openings not used in 2-way or 3-way blow.

Branch duct chamber

This chamber lets you connect a round flexible duct to the air discharge opening at any time after the original installation.

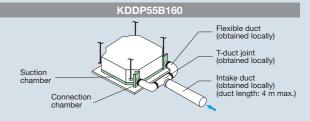
Fresh air intake kit Note 1, 2

Using this kit, a duct can be connected to take in outdoor air. There are two chamber types that have intake in two places: with T-duct joint and without T-duct joint.

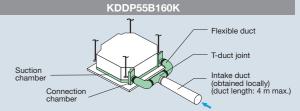


The units can be installed in the following different ways

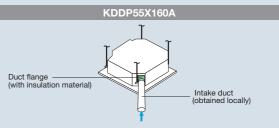
Chamber type (without T-duct joint) Note 3, 4, 5



Chamber type (with T-duct joint) Note 3, 4, 5



Direct installation type Note 6



Note: 1. Use of options will increase operating sound.

- 2. Connecting ducts, fan, insect nets, fire dampers, air filters, and other parts should, as required, be obtained locally.
- 3. When a local-obtained fan is used, an interlock with air conditioner is necessary. Optional PCB (KRP1C11A) is required for interlocking.
- 4. When installing a fresh air intake kit (chamber type), two air outlet corners are closed.
- 5. It is recommended that the volume of outdoor air introduced through the kit is limited to 10% of the maximum airflow rate of the indoor unit. Introducing higher quantities will increase the operating sound and may also influence temperature sensing.
- 6. The volume of fresh air for direct installation type is approximately 1% of the indoor unit airflow. The chamber type is recommended when more fresh air is

■ VRV Indoor Units

Ceiling Mounted Cassette (Compact Multi Flow) Type

| No. | Item | Туре | FXZQ20A2 | FXZQ25A2 | FXZQ32A2 | FXZQ40A2 | FXZQ50A2 | |
|-----|---|-------------|----------|------------|----------|----------|----------|--|
| 1 | Decoration panel | BYFQ60C2W1W | | | | | | |
| 2 | Sealing material of air discha | BDBHQ44C60 | | | | | | |
| 3 | Sensor kit | BRYQ60A2W | | | | | | |
| 4 | Replacement long-life filter | KAF441C60 | | | | | | |
| 5 | 5 Fresh air intake kit Direct installation type | | | KDDQ44XA60 | | | | |

4-Way Flow Ceiling Suspended Type



| No. | Item Type | FXUQ71A | FXUQ100A | | | |
|-----|--|-------------|----------|--|--|--|
| 1 | Sealing material of air discharge outlet | KDBHP49B140 | | | | |
| 2 | Decoration panel for air discharge | KDBTP49B140 | | | | |
| 3 | Replacement long-life filter | KAFP551K160 | | | | |

Ceiling Mounted Cassette (Double Flow) Type



| No. | Item | Model | FXCQ20A | FXCQ25A | FXCQ32A | FXCQ40A | FXCQ50A | FXCQ63A | FXCQ80A | FXCQ125A |
|-----|-------------------------------|------------|-----------|---------|------------|-----------|-------------|------------|---------|----------|
| 1 | Decoration panel | | BYBCQ40CF | | | BYBCQ63CF | | BYBCQ125CF | | |
| 2 | High efficiency filter *1 | 65 % | KAF532C50 | | | KAF532C80 | | KAF532C160 | | |
| | | 90 % | KAF533C50 | | | KAF5 | 33C80 | KAF5 | 33C160 | |
| 3 | Filter chamber for bottom suc | KDDFP53B50 | | | KDDFP53B80 | | KDDFP53B160 | | | |
| 4 | Long life replacement filter | KAF531C50 | | | KAF531C80 | | KAF531C160 | | | |

Note: *1. If installing high efficiency filter, filter chamber is required.

Ceiling Mounted Cassette (Single Flow) Type



| No. | Type | FXEQ20A FXEQ25A | FXEQ32A FXEQ40A | FXEQ50A FXEQ63A |
|-----|------------------|--------------------|--------------------|--------------------|
| 1 | Decoration panel | BYEP40AW1 | | BYEP63AW1 |

Slim Ceiling Mounted Duct Type (Compact Series)



| No. | Item Type | FXDQ20T FXDQ25T FXDQ32T | FXDQ40T FXDQ50T | FXDQ63T |
|-----|---------------------------------|-------------------------|-----------------|-----------|
| 1 | 3-D Auto Swing Discharge Grille | BDG20A09 | BDG20A15 | BDG20A20 |
| 2 | Auto Clean Air Filter Module | BAE20A62 | BAE20A82 | BAE20A102 |

Slim Ceiling Mounted Duct Type (Standard Series)



| No. | Item Type | FXDQ20PD FXDQ25PD | FXDQ32PD | FXDQ40ND | FXDQ50ND | FXDQ63ND |
|-----|----------------------------------|-------------------|----------|----------|----------|----------|
| 1 | Insulation kit for high humidity | KDT25N32 | | KDT2 | 25N50 | KDT25N63 |

Ceiling Concealed (Duct) Type



| No. | Item Type | FXDYQ80MA | FXDYQ100MA | FXDYQ125MA | FXDYQ145MA |
|-----|----------------------|-----------|------------|------------|------------|
| 1 | Run/fault status PCB | KRP1B5X | | | |

Middle Static Pressure Ceiling Mounted Duct Type



| No. | | Туре | FXSQ20PA FXSQ25PA | FXSQ40PA | FXSQ50PA FXSQ63PA | FXSQ100PA | FXSQ140PA |
|-----|--------------------------------------|-------------|----------------------|------------|----------------------|-------------|----------------|
| NO. | Item | | FXSQ32PA | FASQ40PA | FXSQ80PA | FXSQ125PA | FASQ140PA |
| -1 | High efficiency filter *1 65% 90% | 65% | KAF632C36 | KAF632C56 | KAF632C80 | KAF632C160 | KAF632B160B |
| 1 | | 90% | KAF633C36 | KAF633C56 | KAF633C80 | KAF633C160 | KAF633B160B |
| 2 | Filter chamber (for rear suction) *1 | | KDDFP63B36 | KDDFP63B56 | KDDFP63B80 | KDDFP63B160 | KDDF63B160B |
| 3 | Long-life filter *1 | | KAF631C36 | KAF631C56 | KAF631C80 | KAF631C160 | KAF631B160B |
| | | White | KTBJ25K36W | KTBJ25K56W | KTBJ25K80W | KTBJ25K160W | |
| 4 | Service panel | Fresh white | KTBJ25K36F | KTBJ25K56F | KTBJ25K80F | KTBJ2 | 5K160F |
| | Brown | KTBJ25K36T | KTBJ25K56T | KTBJ25K80T | KTBJ2 | 5K160T | |
| 5 | Air discharge adaptor | | KDAP25A36A | KDAP25A56A | KDAP25A71A | KDAP25A140A | KDAP25A160A *2 |
| 6 | Shield plate for side plate | | | KDBD63A160 | | | |

Note: *1. If installing high efficiency filter and long-life filter to the unit, filter chamber is required.

Ceiling Mounted Duct Type



| No. | Item | Туре | FXMQ20PA FXMQ25PA FXMQ32PA | FXMQ40PA | FXMQ50PA FXMQ63PA FXMQ80PA | FXMQ100PA FXMQ125PA FXMQ140PA | FXMQ160P FXMQ180P FXMQ200P FXMQ250P |
|-----|------------------------------|-------------|----------------------------------|------------|----------------------------------|-------------------------------------|--|
| 1 | Drain pump kit | | | - | - | | BDU37A250 |
| 2 | High efficiency filter | 65% | KAF372AA36 | KAF372B56 | KAF372B80 | KAF372B160 | |
| 2 | | 90% | - | KAF373B56 | KAF373B80 | KAF373B160 | |
| 3 | Filter chamber | | - | KDDF37AA56 | KDDF37AA80 | KDDF37AA160 | |
| 4 | Long life replacement filter | | - | KAF371B56 | KAF371B80 | KAF371B160 | |
| 5 | Long life filter chamber kit | | - | KAF375B56 | KAF375B80 | KAF375B160 | - |
| | | White | KTBJ25K36W | KTBJ25K56W | KTBJ25K80W | KTBJ25K160W | |
| 6 | Service panel | Fresh white | KTBJ25K36F | KTBJ25K56F | KTBJ25K80F | KTBJ25K160F | |
| | | Brown | KTBJ25K36T | KTBJ25K56T | KTBJ25K80T | KTBJ25K160T | |
| 7 | Air discharge adaptor | | KDAJ25K36A | KDAJ25K56A | KDAJ25K71A | KDAJ25K140A | |

Ceiling Suspended Type



| No. | Item Type | FXHQ32MA | FXHQ63MA | FXHQ100MA | FXHQ125A | FXHQ140A |
|-----|--|------------|------------------------|-------------|------------|----------|
| 1 | Drain pump kit | KDU50N60VE | KDU50 | KDU50N125VE | | 0R160 |
| 2 | Replacement long-life filter | KAFJ501D56 | KAFJ501D80 KAFJ501D112 | | KAF501B160 | |
| 3 | L-type piping kit (for upward direction) | KHFP5M63 | KHFP5M160 | | KHFP5N160 | |

Wall Mounted Type



| No. | Item Type | FXAQ20A | FXAQ25A | FXAQ32A | FXAQ40A | FXAQ50A | FXAQ63A |
|-----|--|---------------|---------|---------|---------|---------|---------|
| 1 | Drain pump kit | K-KDU572EVE | | | | | |
| 2 | External EV kit (for heating operation) *1 | BEV15D BEV30D | | /30D | | | |

Note: *1. This option is only effective for reducing operation sound during heating operation. Therefore it is ineffective when connected to cooling only outdoor units.

Floor Standing Type



| No. | Item Type | FXLQ20MA FXLQ25MA | FXLQ32MA FXLQ40MA | FXLQ50MA FXLQ63MA |
|-----|------------------------------|-------------------|-------------------|-------------------|
| 1 | Long life replacement filter | KAF361L28 | KAF361L45 | KAF361L71 |

Concealed Floor Standing Type



| 1 Long life replacement filter KAF361L28 KAF361L45 KAF361L71 | No. | Item Type | FXNQ20MA FXNQ25MA | FXNQ32MA FXNQ40MA | FXNQ50MA FXNQ63MA |
|--|-----|------------------------------|-------------------|-------------------|-------------------|
| | 1 | Long life replacement filter | KAF361L28 | KAF361L45 | KAF361L71 |

^{*2.} This option is a set of KDAP25A140A and KDBHP37A160.

Residential Indoor Units with Connection to BP Units

Ceiling Mounted Cassette (Compact Multi Flow) Type



| - 1 | No. | Item | Туре | FFQ25B | FFQ35B | FFQ50B | FFQ60B | |
|-----|-----|---|------|-------------|--------|--------|--------|--|
| | 1 | Decoration panel | | BYFQ60B3W1 | | | | |
| | 2 | Replacement long-life filter | | KAF441C60 | | | | |
| | 3 | Fresh air intake kit Direct installation type | | KDDQ44XA60 | | | | |
| | 4 | Sealing material for air discharge outlet | | KDBH44BA60 | | | | |
| | 5 | Panel spacer | | KDBQ44BA60A | | | | |

Slim Ceiling Mounted Duct Type



| No. | Item Type | FDXS25C | FDXS35C | FDXS50C | FDXS60C | |
|-----|----------------------------------|---------|----------|---------|---------|--|
| 1 | Insulation kit for high humidity | | KDT25N63 | | | |

Wall Mounted Type

| | ** | | | | | | 1.23 |
|-----|-------------------------------------|-----------|---------|---------|----------|----------|----------|
| No. | Item Type | FTXS20K | FTXS25K | FTXS35K | FTXS50KA | FTXS60KA | FTXS71KA |
| 1 | Titanium apatite deodorising filter | KAF970A46 | | | | | |

Note: Filter is a standard accessory. It should be replaced approximately 3 years.

BP Units for Connection to Residential Indoor Units



| No. | Item Type | BPMKS967A3 | BPMKS967A2 | | |
|-----|--------------|------------|------------|--|--|
| 1 | REFNET joint | KHRP26A22T | | | |

Note: A single BP unit does not require a REFNET joint. 2 BP units require only 1 REFNET joint, and 3 BP units require only 2 REFNET joints.

BS Units for Heat Recovery

Individual BS Unit



| No. | Item Type | BSQ100A | BSQ160A | BSQ250A |
|-----|--|---------|-----------|---------|
| 1 | Quiet kit | | KDDN26A1 | |
| 2 | External control adaptor for outdoor units | | DTA104A61 | |
| 3 | Adaptor for multi tenant | | DTA114A61 | |

Centralised BS Unit



| No. | Item Type | BS4Q14A | BS6Q14A BS8Q14A | BS10Q14A BS12Q14A | BS16Q14A | | |
|-----|-----------------|-------------|-----------------|-------------------|-----------|--|--|
| 1 | Closed pipe kit | 6A100C | | | | | |
| 2 | Joint kit | KHRP26A250T | | | | | |
| 3 | Quiet kit | KDDN26B4 | KDDN26B8 | KDDN26B12 | KDDN26B16 | | |

Control Systems

Operation Control System Optional Accessories

Remote sensor BRCS01A-1(4)

For VRV indoor unit use

| No. | Туре | FXFSQ-A | FXFQ-P | FXZQ-A2 | FXUQ-A | FXCQ-A | FXEQ-A | FXDQ-T | FXDQ-PD FXDQ-ND |
|-----|--|---|-----------------------------|---------------------|----------------|----------------------|-----------|--------------------|---------------------|
| 1 | "Nav Ease" remote controller | BRC1E63 Note 5 | BRC | 1E63 | BRC1E63 Note 5 | BRC1E63 | BRC1F61 | BRC | 1E63 |
| 2 | Simplified remote controller | _ | BRC2E61 | | | | | | |
| 3 | Wireless remote controller | BRC7M634F (Fresh White) / BRC7M634K (Black) | BRC7M634F BRC7E530W BRC7CB5 | | BRC7CB58 | BRC7M65 | BRC4M61 | BRC4C65 | |
| 4-1 | Adaptor for wiring (operation status output) | ★BRP11B62 | · - | | | | | _ | ★BRP11B61 |
| 4-2 | Adaptor for wiring | ★KRP1C11A | ★KRP1C63 | ★KRP1BA57 | _ | ★KRP1B61 | _ | ★KRP1C64 | ★KRP1B56 |
| 5-1 | Wiring adaptor for electrical appendices (1) | _ | ★KRP2A62 | ★KRP2A526 | _ | ★KRP2A61 | _ | ★KRP2A61 | ★KRP2A53 |
| 5-2 | Wiring adaptor for electrical appendices (2) | | ★KRP4AA53 | | ★KRP4AA51 | _ | ★KRP4AA51 | ★KRP4A54 | |
| 6 | Remote sensor (for indoor temperature) | KRCS01-5B | BRCS01A-4 | | | BRCS01A-1 | BRCS | 01A-4 | BRCS01A-1 |
| 7 | Installation box for adaptor PCB☆ | Note KRP1 | 2, 3 H98A | Note 4 KRP1BA101 | KRP1BA97 | Note 2, 3 KRP1B96 | _ | I RRPAAAN | Note 4 KRP1BA101 |
| 8 | External control adaptor for outdoor unit | *DTA104A6 | | 2 | _ | ★DTA104A61 | _ | ★ DTA104A61 | ★DTA104A53 |
| 9 | Adaptor for multi tenant | 7 | ★DTA114A6 | 1 | | | _ | | |
| 10 | Multi tenancy kit | | | | _ | | | Note 2 KRP114A3 | _ |

| No. | Туре | FXDYQ-MA | FXSQ-PA | FXMQ-PA | FXMQ-P | FXHQ-MA | FXHQ-A | FXAQ-A | FXLQ-MA FXNQ-MA |
|-----|--|------------------|----------------------|----------------------|-----------|-------------------------|--------------------|-----------------------|--------------------|
| 1 | "Nav Ease" remote controller | | | | BRC1E63 | | | | |
| 2 | Simplified remote controller | | | | BRC2E61 | | | | |
| 3 | Wireless remote controller | BRC4C62 | | BRC4C65 | | BRC7EA63W | BRC7M53 | BRC7M675 | BRC4C62 |
| 4-1 | Adaptor for wiring (operation status output) | - ★BRP11B62 | | 11B62 | _ | ★BRP11B61 | | _ | BRP11B62 |
| 4-2 | Adaptor for wiring | KRP1B61 ★KRP1C64 | | ★KRP1C67 | KRP1BA54 | | _ | KRP1B61 | |
| 5-1 | Wiring adaptor for electrical appendices (1) | KRP2A61 | ★KRI | P2A61 | ★KRF | KRP2A62 - | | ★KRP2A61 | KRP2A61 |
| 5-2 | Wiring adaptor for electrical appendices (2) | KRP4AA51 | ★KRP | 4AA51 | ★KRP4AA52 | | | ★KRP4AA51 | KRP4AA51 |
| 6 | Remote sensor (for indoor temperature) | BRCS01A-1 | BRCS | 01A-4 | BRCS01-6B | -6B BRCS01A-1 BRCS01A-4 | | 4 BRCS01A-1 | |
| 7 | Installation box for adaptor PCB☆ | _ | Note 2, 3 KRP4A98 | Note 2, 3 KRP4A97 | BRP9A90 | Note 3 KRP1CA93 | Note 3 KRP1D93A | Note 2, 3 KRP4AA93 | _ |
| 8 | External control adaptor for outdoor unit | DTA104A61 | 104A61 ★DTA104A61 | | − ★DTA* | | 104A62 | ★DTA104A61 | DTA104A61 |
| 9 | Adaptor for multi tenant | - | – ★DTA1 | | 14A61 — | | ★DTA114A61 | _ | |

Note: 1. Installation box☆is necessary for each adaptor marked★

- 2. Up to 2 adaptors can be fixed for each installation box.
- Only one installation box can be installed for each indoor unit.
 Up to 2 installation boxes can be installed for each indoor unit.
- 5. Some functions can be set only via the wired remote controller BRC1E63. They cannot be set via other remote controllers.
- Please refer to each indoor unit and remote controller page for function details
- 6. Since the control panel is equipped as standard, use the option of BRC1E63 for 2 remote control system.

 7. When using BRC1E63 or BRC2E61, be sure to remove the control panel and since BRC1E63 and BRC2E61 cannot be stored inside the indoor unit, please place it separately.



Adaptor for wiring (operation status output)

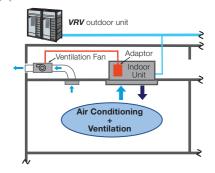
Example: Interlocking operation of the indoor unit and ventilation fan that takes in fresh air.



BRP11B61

BRP11B62

By installing it in the indoor unit with a simple wire connection, this adaptor takes out the operating signals for the indoor unit fan and the compressor and enables the interlocking of equipment such as the ventilation fan.



Control Systems

Operation Control System Optional Accessories

For residential indoor unit use

| No. | Item | Туре | FFQ-B | FDXS-C | FTXS-K(A) | |
|-----|--|----------------------------|--------------------|-----------------|-----------|--|
| -1 | Remote controller | Wired Note 1 | BRC1E63 | BRC944B2 Note 2 | | |
| 1 | hemote controller | Wireless | BRC7E530W | - | Note 3 | |
| 2 | Wired remote | Length 3 m (shielded wire) | _ | BRCW! | 901A03 | |
| | controller cord | Length 8 m (shielded wire) | - | BRCW901A08 | | |
| 3 | Adaptor for wiring | | Note 4 KRP1BA57 | - | | |
| 4 | Wiring adaptor for el | ectrical appendices | Note 4 KRP4AA53 | - | | |
| 5 | Installation box for a | daptor PCB | KRP1BA101 | - | | |
| 6 | Remote sensor (for i | ndoor temperature) | BRCS01A-1 | - | | |
| 7 | Wiring adaptor for time clock/remote controller Note 5 (Normal open pulse contact/normal open contact) | | - | KRP413BB1S | | |
| 8 | Remote controller loss prevention chain | | - | KKF917A4 | KKF910A4 | |
| 9 | Interface adaptor for DIII-NET use | | DTA112BA51 | KRP928BB2S | | |

- Note: 1. Wiring for wired remote controller should be obtained locally.

 2. 3 m (BRCW901A03) or 8 m (BRCW901A08) length wired remote controller cord is necessary.

 3. A wireless remote controller is a standard accessory for FDXS and FTXS models.

 4. Installation box for adaptor PCB (KRP1BA101) is necessary.

 5. Time clock and other devices should be obtained locally.

System Configuration

| No. | Item Type | Model No. | Function |
|-----|--|-----------------------|--|
| 1 | Residential central remote controller | Note 2 DCS303A51 | Up to 16 groups of indoor units (128 units) can be easily controlled using the large LCD panel. ON/OFF, temperature settings and scheduling can be controlled individually for indoor units. |
| 2 | Interface adaptor for residential indoor units | KRP928BB2S | Adaptors required to connect products other than those of the VRV System to |
| 3 | Interface adaptor for SkyAir-series | Note 3 ★DTA112BA51 | the high-speed DIII-NET communication system adopted for the VRV System. * To use any of the above optional controllers, an appropriate adaptor must be |
| 4 | Central control adaptor kit For UAT(Y)-K(A),FD-K | ★DTA107A55 | installed on the product unit to be controlled. |
| 5 | Wiring adaptor for other air-conditioner | ★ DTA103A51 | instance on the product and to be controlled. |
| 6 | DIII-NET Expander Adaptor | DTA109A51 | Up to 1024 units can be centrally controlled in 64 different groups. Wiring restrictions (max. length: 1,000m, total wiring length: 2,000m, max. number of branches: 16) apply to each adaptor. |
| 6-1 | External control adaptor | DTA104A61 | Demand control of individual or multiple systems. Low noise option for individual or multiple systems. |
| 6-2 | Mounting plate | BKS26A | • When installing DTA109A51, DTA104A61 into outdoor units of 14 class or larger. |

- Note: 1. Installation box for ★ adaptor must be obtained locally.

 2. For residential use only. Cannot be used with other centralised control equipment.
 - 3. No adaptor is required for some indoor units.

Building Management System

| No. | | li | tem | | Model No. | Function |
|------|---|---|---------------------------------------|-------------------------------------|--|---|
| 1 | intelligent Touch | Basic | Hardware | intelligent Touch Controller | DCS601C51 | Air-Conditioning management system that can be controlled by a compact all-in-one unit. |
| 1-1 | Controller | Option | Option Hardware DIII-NET plus adaptor | | DCS601A52 | Additional 64 groups (10 outdoor units) is possible. |
| 1-2 | Electrical box with earth terminal (4 blocks) | | | locks) | KJB411A | Wall embedded switch box. |
| 2 | | Basic | Hardware | intelligent Touch Manager | DCM601A51 | Air-conditioning management system that can be controlled by touch screen. |
| 2-1 | | | Hardware | iTM plus adaptor | DCM601A52 | Additional 64 groups (10 outdoor units) is possible. Max. 7 iTM plus adaptors can be connected to intelligent Touch Manager. |
| 2-2 | intelligent Touch | | | iTM power proportional distribution | DCM002A51 | Power consumption of indoor units are calculated based on operation status of the indoor unit and outdoor unit power consumption measured by kWh metre. |
| 2-3 | Manager | Option | Software | iTM energy navigator | DCM008A51 | Building energy consumption is visualised. Wasted air-conditioning energy can be found out. |
| 2-4 | | | | BACnet® client | DCM009A51 | BACnet® equipment can be managed by intelligent Touch Manager. |
| 2-5 | | | | HTTP Interface | DCM007A51 | Interface for intelligent Touch Manager by HTTP |
| 2-6 | | | Hardware | *1 SVM series | SVMPR2 | VRV Smartphone Control System for residence |
| 2-7 | | | | | SVMPC2 | VRV Smartphone Remote Controller for building |
| 2-8 | | | | | *5 SVMPS1 | Tenant Billing System with PPD |
| 2-9 | VRV Smartphone | e Control | System | | SVMPR1 | • VRV Smartphone Control System for residence with DTA116A51. |
| 2-10 | VRV Tablet and | Smartpho | one Control | ler | SVMPC1 | *6 • VRV Tablet and Smartphone Controller for small size building or residence with DTA116A51. |
| 2-11 | Multi Site Manag | ement S | ystem by us | sing SVMPC1 | MSMPN1 | MSM can control all VRV units via SVM system on multi site. |
| 2-12 | Di unit | | | | DEC101A51 | 8 pairs based on a pair of ON/OFF input and abnormality input. |
| 2-13 | Dio unit | | | | DEC102A51 | 4 pairs based on a pair of ON/OFF input and abnormality input. |
| 3 | | *2 Interface for use in BACnet® Optional DIII board Optional Di board | | DMS502B51 | Interface unit to allow communications between <i>VRV</i> and BMS. Operation and monitoring of air-conditioning systems through BACnet® communication. | |
| 3-1 | | | | | DAM411B51 | Expansion kit, installed on DMS502B51, to provide 2 more DIII-NET communication ports. Not usable independently. |
| 3-2 | Communication | | | | DAM412B51 | Expansion kit, installed on DMS502B51, to provide 16 more wattmeter pulse input points. Not usable independently. |
| 4 | interface | *3 Interface for use in LONWORKS® | | DMS504B51 | Interface unit to allow communications between <i>VRV</i> and BMS. Operation and monitoring of air-conditioning systems through LonWorks® communication. | |
| 5 | | *8 Modbus® Communication Adaptor | | DTA116A51 | *7 • Use of the Modbus® protocol enables the connection of the VRV system with a variety of home automation systems from other manufacturers. | |
| 5-1 | | Mountir | ng plate | | BKS26A | When installing DTA116A51 into outdoor units of 14 class or larger. |
| 6 | Contact/ analogue signal | Unification adaptor for computerised control | | | *DCS302A52 | Interface between the central monitoring board and central control units. |

Note: *1. HTTP interface (DCM007A51) is also required.

- BAChet[®] is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).
 BAChet[®] is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).
 LonWorks[®] is a trademark of Echelon Corporation registered in the United States and other countries.

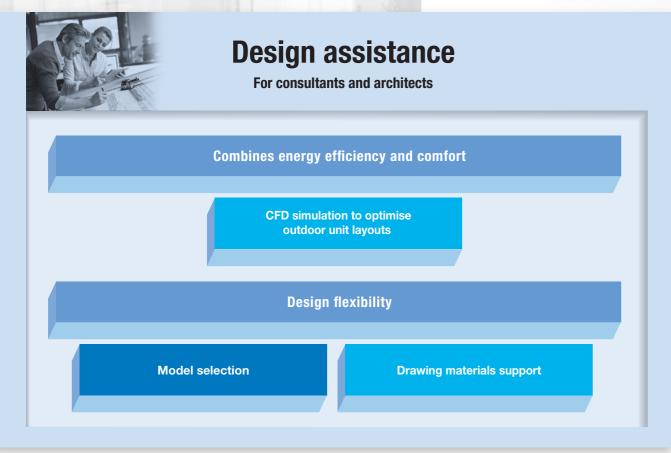
- *3. Lonworks is a trademark of Echelon Corporation registered in *4. Installation box for ★ adaptor must be obtained locally.
 *5. PPD option (DCM002A51) for iTM is also required.
 *6. Possible to connect at a maximum of 2 DTA116A51.
 *7. Modbus® is a registered trademark of Schneider Electric S.A.
 *8. Cannot apply for VRV R series.

Daikin Engineering Supports

■ VRV Design and Sales Proposal Assistance

Daikin provides engineering supports for *VRV* systems. It consists of design supports that can assist consultants and architects, as well as sales proposal supports for air conditioning engineers and dealers. We at Daikin provide the software, the simulation results, and drawing materials to support the business-information modeling (BIM) currently entering the mainstream in construction industries.









Model Selection Software

VRV Xpress

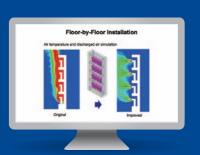
VRV Xpress is a flexible design software that optimises equipment selection. It can empower consultants and air conditioning engineers so they can fully enhance their equipment selections to design the most effective, optimum systems possible. The software also allows the choice of outdoor units based on peak loads rather than the sum of required capacities for each indoor unit. This fine-tuning feature reduces **VRV** system sizes and increases efficiency.



CFD Simulation to Optimise Outdoor Unit Layouts DT FLOW II

consultants and architects optimise their outdoor unit arrangement.

DT FLOW II is a simulation software that uses computational fluid dynamics (CFD), aiming to optimise outdoor unit layouts right at the design stage. When discharged air from the outdoor unit is drawn back into the suction vent, it can short circuit the system and lead to: decrease in efficiency of cooling operations, capacity shortages, operation cut-offs, and shorter lifetime for the outdoor unit. To avoid the need for expensive layout modifications once construction is complete, Daikin uses the CFD method at the early design stage. This can help



Drawing Supports

CAD Symbols

Users download CAD symbol drawing materials, including 2D CAD symbols and 3D Revit data, for **VRV** systems designing. The 3D Revit data contains specifications for Daikin products, including things like capacities and electric characteristics to support Business Information Modeling (BIM).







- Warning Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
 - Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
 - Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any enquiries, please contact your local importer, distributor and/or retailer.

Cautions on product corrosion

- 1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
- 2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.

VRV is a trademark of Daikin Industries. Ltd.

VRV is a traderial of Dalkin industries, Etd.

VRV Air Conditioning System is the world's first individual air conditioning system with variable refrigerant flow control and was commercialised by Daikin in 1982.

VRV is the trademark of Daikin Industries, Ltd., which is derived from the technology we call "variable refrigerant volume."