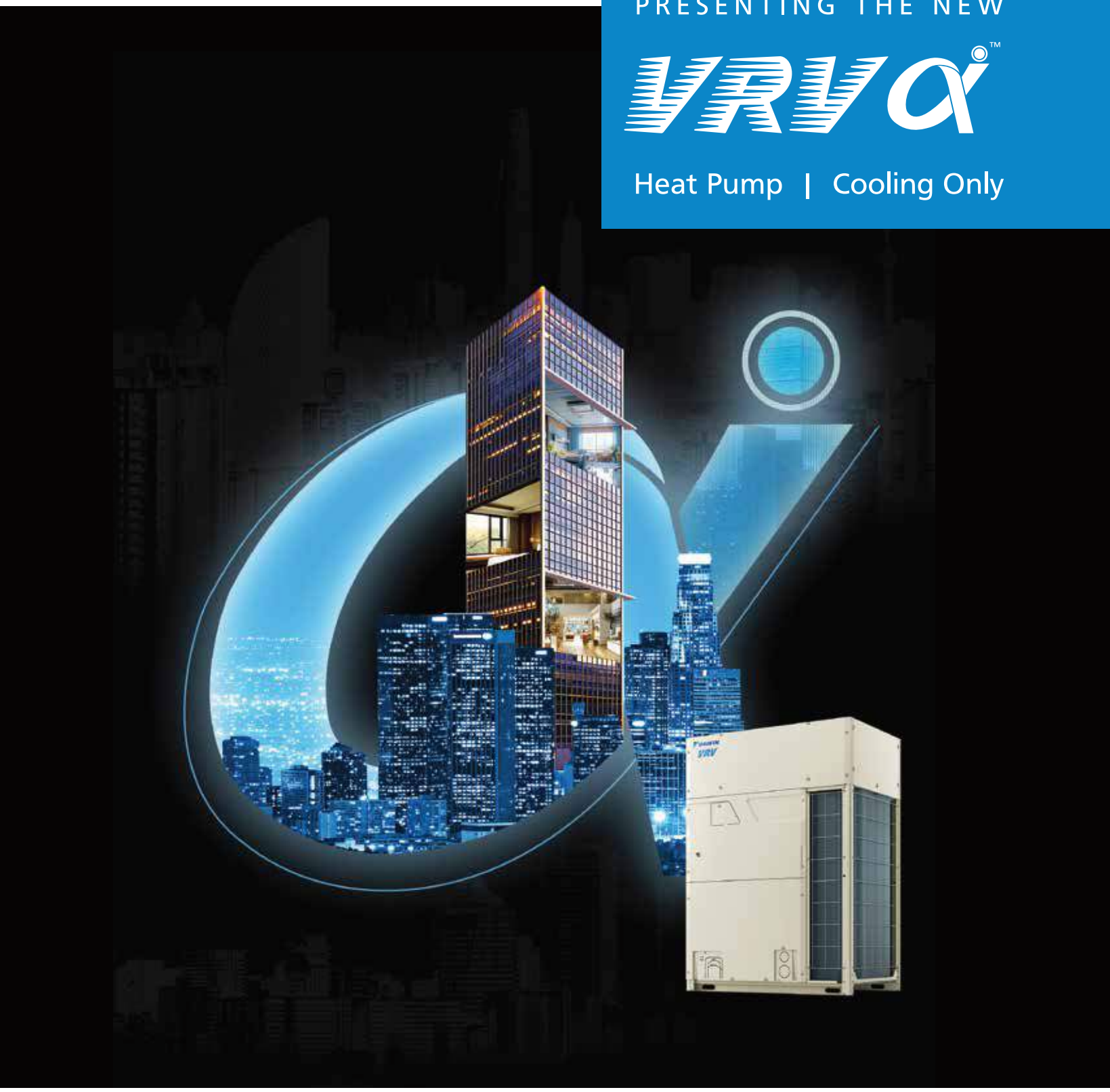
DAIKIN

WORLD'S LEADING AIR CONDITIONING COMPANY FROM JAPAN

PRESENTING THE NEW

# VRV α™

Heat Pump | Cooling Only



High Energy Efficiency | Superior Cooling | Weatherproof Performance | Powerful Expandable Solution | AI Solutions for Smart Maintenance

VRV α™

# INDEX

02 WHAT DAIKIN STANDS FOR

06 SALIENT FEATURES

24 INDOOR UNIT LINE-UP

50 SPECIFICATIONS

74 OUTDOOR UNIT COMBINATIONS

76 OPTION LIST

80 CONTROL SYSTEMS

112 AIR TREATMENT EQUIPMENT LINE-UP

# VRV α™

Driven by intelligent innovation, VRV Alpha delivers reliable performance with unmatched efficiency. This quiet dominance gives every space the confidence of lasting comfort while contributing to a smarter, sustainable future.

# What Daikin Stands For

## The world leader in air conditioning

At Daikin, we are a leading innovator and provider of advanced, high-quality air conditioning solutions for residential, commercial and industrial applications.

As the world's leading air conditioning company, we are committed to deliver air conditioning solutions that enhance the quality of life all around the world.

Established in 1924, Daikin Industries Ltd., is a diverse multinational company, active in air conditioning, chemicals and oil hydraulics. With headquarters at Osaka, Japan, our Daikin family has more than 1,03,544 members, working across 133 production bases and 350 consolidated subsidiaries worldwide.

As the world's sole manufacturer that develops a long line of products from refrigerants to air conditioners, we advocate comfortable living on the strength of advanced technologies.

We are present in USA, Europe and Russia, The Middle East, Africa, Asia, Oceania and Middle-South America. We aim to serve our customers in each of these markets by providing optimal air conditioning solutions.

Osaka Head Office

Production Site

Tokyo Office

Overseas Affiliate

## EUROPE / MIDDLE EAST / AFRICA

Daikin
Europe N.V.

Daikin
Air conditioning
France

Daikin
Air conditioning
Germany

Daikin
Air conditioning
Central Europe

Daikin
Air conditioning
Spain

Daikin
Air conditioning
Italy

Daikin
Air conditioning
UK

Daikin Industries
Czech Republic

Daikin Chemical
France

## CHINA

Daikin
(China) Investment

Daikin
Air conditioning
Shanghai

Xi'an Daikin
Qing'an
Compressor

Hui Zhou Daikin
Suns
Air conditioning

Daikin Device
(Suzhou)

Daikin Fluoro
Coating
Shanghai

Daikin
Fluorochemicals
China

## ASIA / OCEANIA

Daikin
Air conditioning
India

Daikin Compressor
Industries

Daikin
Air conditioning
Singapore

Daikin Australia

Daikin Industries
Thailand

Daikin Industries
Head Office Japan
(Inside Umeda
Centre Building)

## NORTH AMERICA/CENTRAL & SOUTH AMERICA

Daikin America

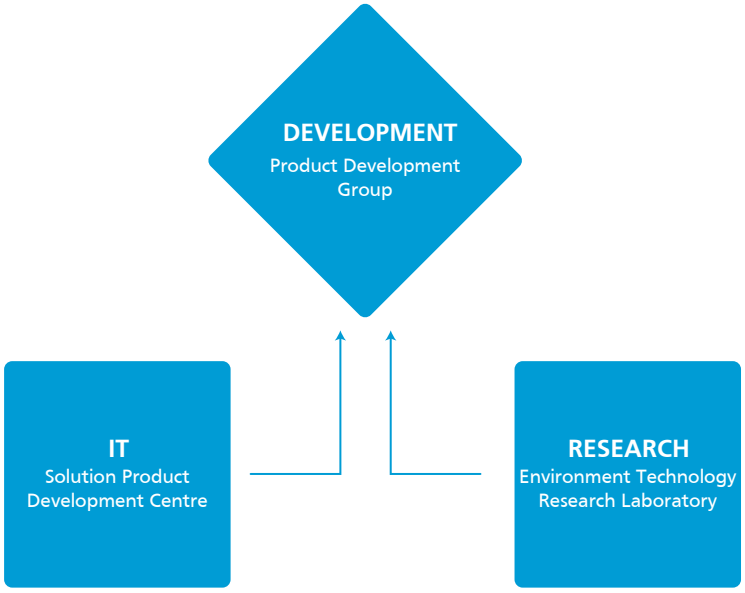
Daikin AC
America

Daikin Holding
USA

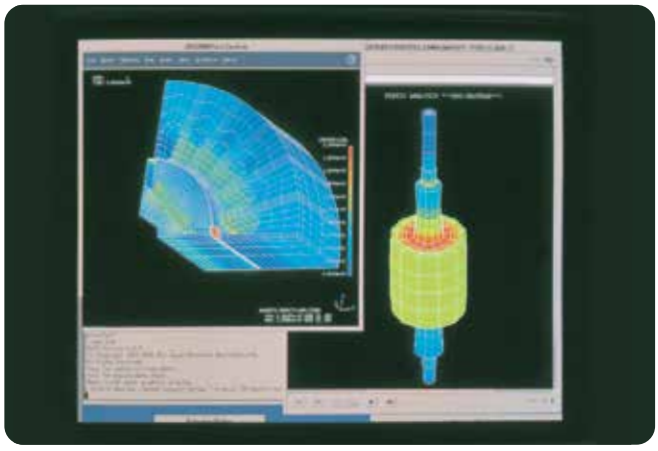
# Exploring new R&D frontiers

At Daikin, we are creating value through innovative technologies. As a global industry front-runner, we are carrying out research and development on the world's most advanced air conditioning technology. Our strong R&D edge has helped us create futuristic products that enrich people's lives. As symbolised by the VRV, Daikin has put forth a multitude of products and varied technology that have always been and continue to be, at the forefront of innovation.
To be able to offer such products and services that delight and astound our customers, we have constructed an advanced R&D architecture.

Formation of a three-division system of research, IT and development to support our superior products. To create more advanced functions and new value, we have instituted specialised R&D divisions: the 'Environmental Technology Research Laboratory' and the 'Solution Product Development Centre'. In combination with the product development group, each of the three divisions work in close co-operation to precisely ascertain the customers' needs and to enable commercialisation of products, incorporating advanced technology that take the lead over our competitors.



Environmental Technology Research Laboratory:
Intensive Research on Environmentally Conscious, Energy Saving Air Conditioning Technology.
Accelerating globalisation of our air conditioning business and varied needs of customers across geographies are increasing our research challenges. We have established a research laboratory devoted to the two fields of 'air conditioning' and 'the environment'. With our mission to promote energy savings in air conditioners, we are engaged in R&D on cutting-edge technologies. Our aim is to create futuristic products from fundamental research on motor inverters and other areas to support individual product development.
Going forward, we will elevate our technology edge to achieve further business expansion globally.



The Solutions Product Development Centre:
Integrating Air conditioners with IT.
Keeping in mind the changes in business brought in by the computerisation and networking of society, we have integrated IT into our airconditioners, including communication technology, software technology and digital control. We are initiating R&D that will offer new system services-a comfortable environment with superior energy savings by networking air conditioners. Such a scenario will enable them to exchange information with service centres.

Technology & Innovation Centre, Japan:
Aiming for new value creation as a core base for technology development.

Research & Development Centre, India:
Reiterating to its commitment to Indian market, Daikin India R&D is dedicated to provide customised solutions to its customers.

# VRV α™ SERIES

## Significant improvement in total performance

6class-78class
(16.8 kW) (220 kW)

New

Single outdoor units
**RX(Y)Q6-26BRY16**

Double outdoor units
**RX(Y)Q28-52BRY16**

Triple outdoor units
**RX(Y)Q54-78BRY16**

## Next Generation VRV system

# Offers a wide variety of new functions that benefit everyone involved.

VRVα series enables cooling and heating operation with a single VRV system.
VRVα series adopt a new casing to realise a single module of up to 26 class. In addition, the new models have achieved significant energy savings with improved technology. The operating performance has been improved in all directions by introducing unique ideas, technologies and a wide variety of functions to strengthen design flexibility, easy installation and reliability.
We provide higher benefits to various users related to air conditioning systems, for example, building owners, consultants, installers and even building management.

# New Casing

Offers advanced design and new structure with excellent workability.
The larger single module casing reduces installation space.

6, 8, 10, 12 class

14, 16, 18, 20 class

22, 24, 26 class

## ODU Combination- Heat Pump

| System capacity | | | Units | M | | | | | L | | | XL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ODU HP | Cooling(KW) | Heating(KW) | | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 |
| 6 | 16 | 18 | Single | 1 | | | | | | | | | | |
| 8 | 22.4 | 25 | | | 1 | | | | | | | | | |
| 10 | 28 | 31.5 | | | | 1 | | | | | | | | |
| 12 | 33.5 | 37.5 | | | | | 1 | | | | | | | |
| 14 | 40 | 45 | | | | | | 1 | | | | | | |
| 16 | 45 | 50 | | | | | | | 1 | | | | | |
| 18 | 50 | 56 | | | | | | | | 1 | | | | |
| 20 | 56 | 63 | | | | | | | | | 1 | | | |
| 22 | 61.5 | 69 | | | | | | | | | | 1 | | |
| 24 | 67 | 73 | | | | | | | | | | | 1 | |
| 26 | 73 | 73 | | | | | | | | | | | | 1 |
| 28 | 78.5 | 87.5 | Double | | | | 1 | | 1 | | | | | |
| 30 | 83.5 | 93.5 | | | | | 1 | | | 1 | | | | |
| 32 | 89.5 | 100 | | | | | 1 | | | | 1 | | | |
| 34 | 95 | 106 | | | | | 1 | | | | | 1 | | |
| 36 | 100 | 110 | | | | | 1 | | | | | | 1 | |
| 38 | 106 | 110 | | | | | 1 | | | | | | | 1 |
| 40 | 112 | 126 | | | | | | | | | 2 | | | |
| 42 | 118 | 123 | | | | | | | 1 | | | | | 1 |
| 44 | 123 | 136 | | | | | | | | | 1 | | 1 | |
| 46 | 129 | 136 | | | | | | | | | 1 | | | 1 |
| 48 | 134 | 142 | | | | | | | | | | 1 | | 1 |
| 50 | 140 | 146 | | | | | | | | | | | 1 | 1 |
| 52 | 146 | 146 | | | | | | | | | | | | 2 |
| 54 | 151 | 160 | Triple | | | | 1 | | 1 | | | | | 1 |
| 56 | 156 | 167 | | | | | 1 | | | | 1 | | 1 | |
| 58 | 162 | 173 | | | | | 1 | | | | 1 | | | 1 |
| 60 | 167 | 183 | | | | | 1 | | | | | | 2 | |
| 62 | 173 | 183 | | | | | 1 | | | | | | 1 | 1 |
| 64 | 179 | 183 | | | | | 1 | | | | | | | 2 |
| 66 | 185 | 199 | | | | | | | | | 2 | | | 1 |
| 68 | 191 | 196 | | | | | | | 1 | | | | | 2 |
| 70 | 196 | 209 | | | | | | | | | 1 | | 1 | 1 |
| 72 | 202 | 209 | | | | | | | | | 1 | | | 2 |
| 74 | 207 | 215 | | | | | | | | | | 1 | | 2 |
| 76 | 213 | 219 | | | | | | | | | | | 1 | 2 |
| 78 | 219 | 219 | | | | | | | | | | | | 3 |

## ODU Combination- Cooling Only

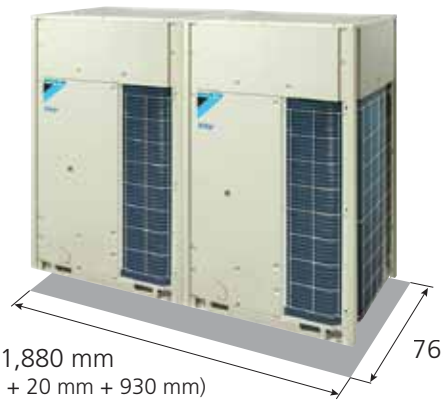
| System capacity | | Units | M | | | | L | | | | XL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ODU HP | Cooling(KW) | | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 |
| 6 | 16 | Single | 1 | | | | | | | | | | |
| 8 | 22.4 | | | 1 | | | | | | | | | |
| 10 | 28 | | | | 1 | | | | | | | | |
| 12 | 33.5 | | | | | 1 | | | | | | | |
| 14 | 40 | | | | | | 1 | | | | | | |
| 16 | 45 | | | | | | | 1 | | | | | |
| 18 | 50 | | | | | | | | 1 | | | | |
| 20 | 56 | | | | | | | | | 1 | | | |
| 22 | 61.5 | | | | | | | | | | 1 | | |
| 24 | 67 | | | | | | | | | | | 1 | |
| 26 | 73 | | | | | | | | | | | | 1 |
| 28 | 80 | Double | | | | | 2 | | | | | | |
| 30 | 83.5 | | | | | 1 | | | 1 | | | | |
| 32 | 90 | | | | | | 1 | | 1 | | | | |
| 34 | 95 | | | | | | | 1 | 1 | | | | |
| 36 | 100 | | | | | | | | 2 | | | | |
| 38 | 107 | | | | | | 1 | | | | | 1 | |
| 40 | 113 | | | | | | 1 | | | | | | 1 |
| 42 | 117 | | | | | | | | 1 | | | 1 | |
| 44 | 123 | | | | | | | | 1 | | | | 1 |
| 46 | 129 | | | | | | | | | | 1 | 1 | |
| 48 | 134 | | | | | | | | | | | 2 | |
| 50 | 140 | | | | | | | | | | | 1 | 1 |
| 52 | 146 | | | | | | | | | | | | 2 |
| 54 | 150 | Triple | | | | | | | 3 | | | | |
| 56 | 156 | | | | | 1 | | | 1 | | | | 1 |
| 58 | 163 | | | | | | 1 | | 1 | | | | 1 |
| 60 | 167 | | | | | | | | 2 | | | 1 | |
| 62 | 173 | | | | | | | | 2 | | | | 1 |
| 64 | 179 | | | | | 1 | | | | | | | 2 |
| 66 | 184 | | | | | | | | 1 | | | 2 | |
| 68 | 190 | | | | | | | | 1 | | | 1 | 1 |
| 70 | 196 | | | | | | | | 1 | | | | 2 |
| 72 | 201 | | | | | | | | | | | 3 | |
| 74 | 207 | | | | | | | | | | | 2 | 1 |
| 76 | 213 | | | | | | | | | | | 1 | 2 |
| 78 | 219 | | | | | | | | | | | | 3 |

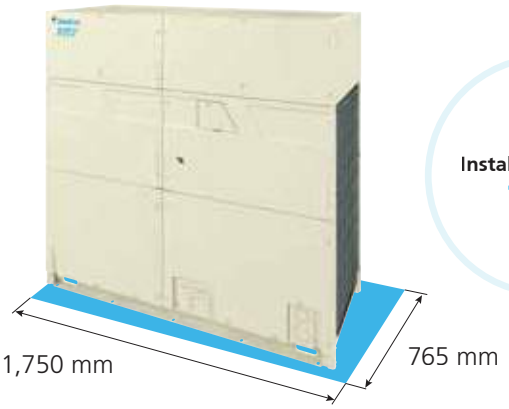
# New Casing

## Large-capacity single module

Single module reduces installation space

| Conventional models | New models VRV α™ SERIES |
|---|---|
| 22, 24, 26 class | 22, 24, 26 class |




Installation space 7% less

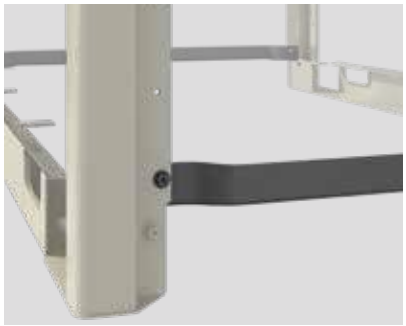
Installation space **1.44 m²**

Installation space **1.34 m²**

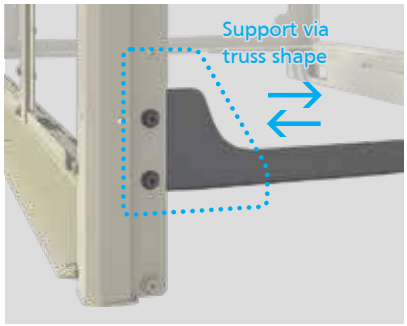
## New reinforced design

The frame structure has been strengthened to improve resistance to earthquakes and wind while protecting against falling damage.

### 1 Minimises horizontal wobbling

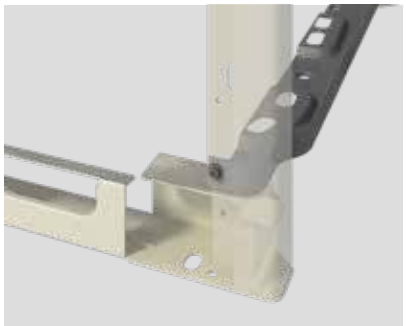


Conventional models

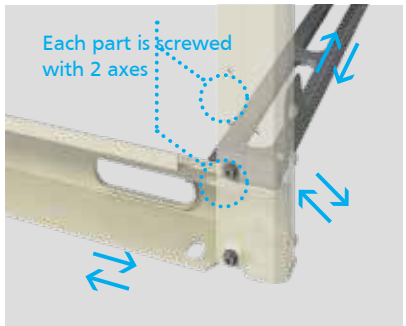



VRVα™ SERIES

### 2 Minimises vibration from various angles



Conventional models




VRVα™ SERIES

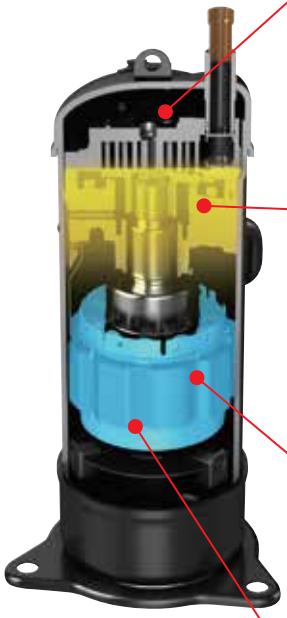
# Energy Savings

## High ISEER

Energy savings during actual operation have been further improved by the evolution of software and hardware technologies.

### Hardware technology High Efficiency Compressor

New technologies increase seasonal energy efficiency and enable a compact design.



#### Improvement of the discharge port

By improving the shape of the refrigerant discharge port, the pressure increase near the discharge port of the gas refrigerant after compression is suppressed and the compression loss is reduced.

#### Optimising the back pressure control / New oil control function

In addition to the conventional intermediate pressure adjustment port, the pressing pressure of the orbiting scroll during operation has been optimised, and the newly adopted oil control mechanism has reduced gas leakage and mechanical loss.

#### Adoption of a high-performance concentrated motor

The coil circumference is greatly reduced, which makes the coil denser and thicker, and the electrical resistance of the coil is dramatically reduced to improve motor efficiency. Furthermore, the motor is light-weighted and downsized.

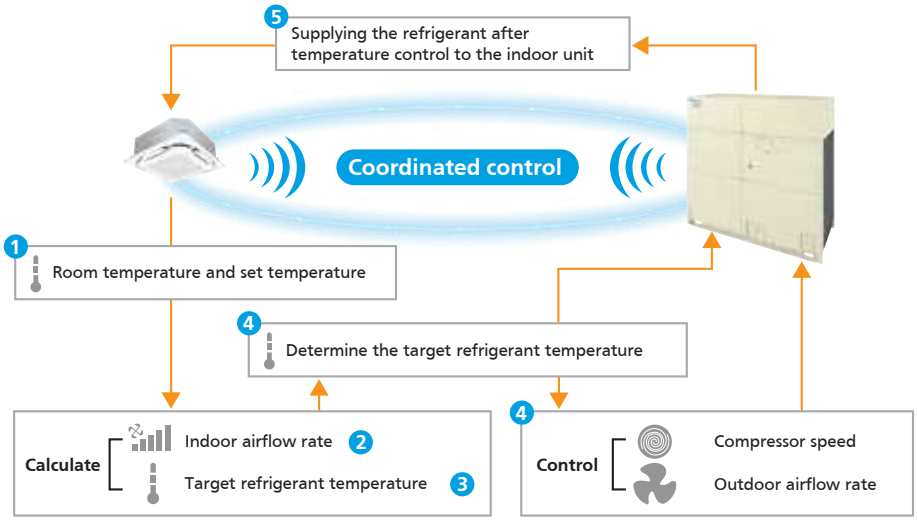
#### Improved partial load performance and higher ISEER

The introduction of **new 8-pole motors with 12-slot designs**, featuring concentrated windings, helps reduce vibration, noise and provides better part-load efficiency with increased ISEER.

## Software technology VRT Smart II control

Further improvement of energy savings is achieved due to optimal control of the outdoor airflow rate.

### Optimal supply exactly meets the required capacity of indoor units

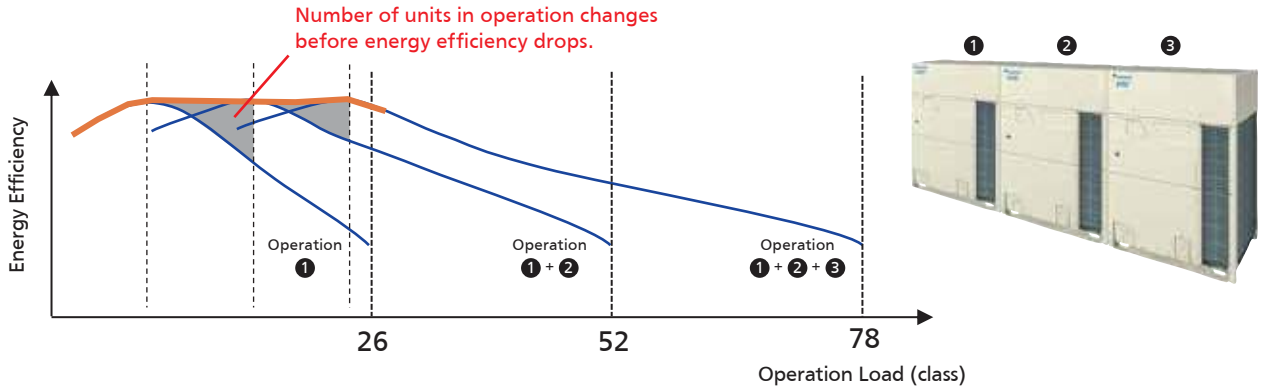



1. Indoor unit will calculate capacity needed based on ΔT (Room temperature vs set temperature) and room temperature trend.
2. Indoor unit will try to regulate with fan speed control.
3. If fan cannot control speed, indoor unit request Te change from outdoor unit.
4. Outdoor unit determines the refrigerant temperature based on the demands, and controls the compressor speed and outdoor airflow rate to change the refrigerant temperature.
5. The outdoor unit supplies the refrigerant adjusted to moderate temperature to the indoor unit.

## Optimal operating unit in multi-system

- In outdoor multi-systems, the number of units operated is automatically controlled to ensure the best total efficiency according to the air-conditioning load.
- As the operating efficiency at low loads has been dramatically improved, the system controls each unit automatically in order to maintain operation at a lower load, operating at the highest possible efficiency.

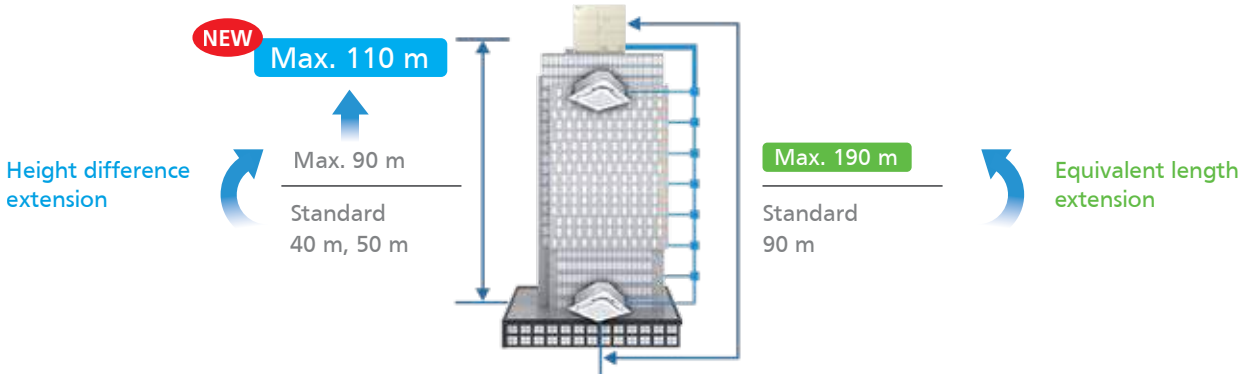
■ Overview of multi-unit control for triple units (78 class)



# Design Flexibility

## Simultaneous extension of height difference and equivalent length

Design flexibility is further improved by simultaneous extension of height difference, improved from 90 m to 110 m, and equivalent length (up to 190 m).




- **Height difference extension** Max. 110 m

  For height differences exceeding 50 m with the outdoor unit above the indoor unit and 40 m with the outdoor unit below, the main liquid piping size must be increased.

  The operating temperature range is up to 49˚C (Outdoor units above indoor units only).
  The minimum connection capacity index of the indoor unit shall be 63 or more (Outdoor units above indoor units only).

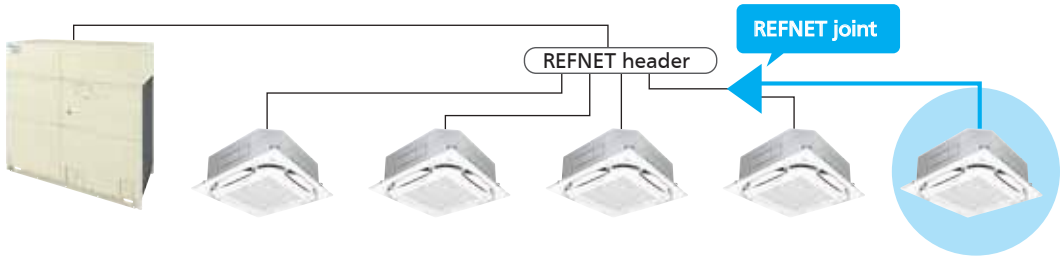
- **Equivalent length** Max. 190 m

  When the equivalent piping length from outdoor unit to indoor unit is 90 m or more, be sure to increase the size of the liquid and gas pipes of the main piping.

* In addition to increasing the size of the main pipe, there are other piping restrictions regarding height difference extension and equivalent length. Check the Installation Manual for details.

## REFNET header downstream branching supported

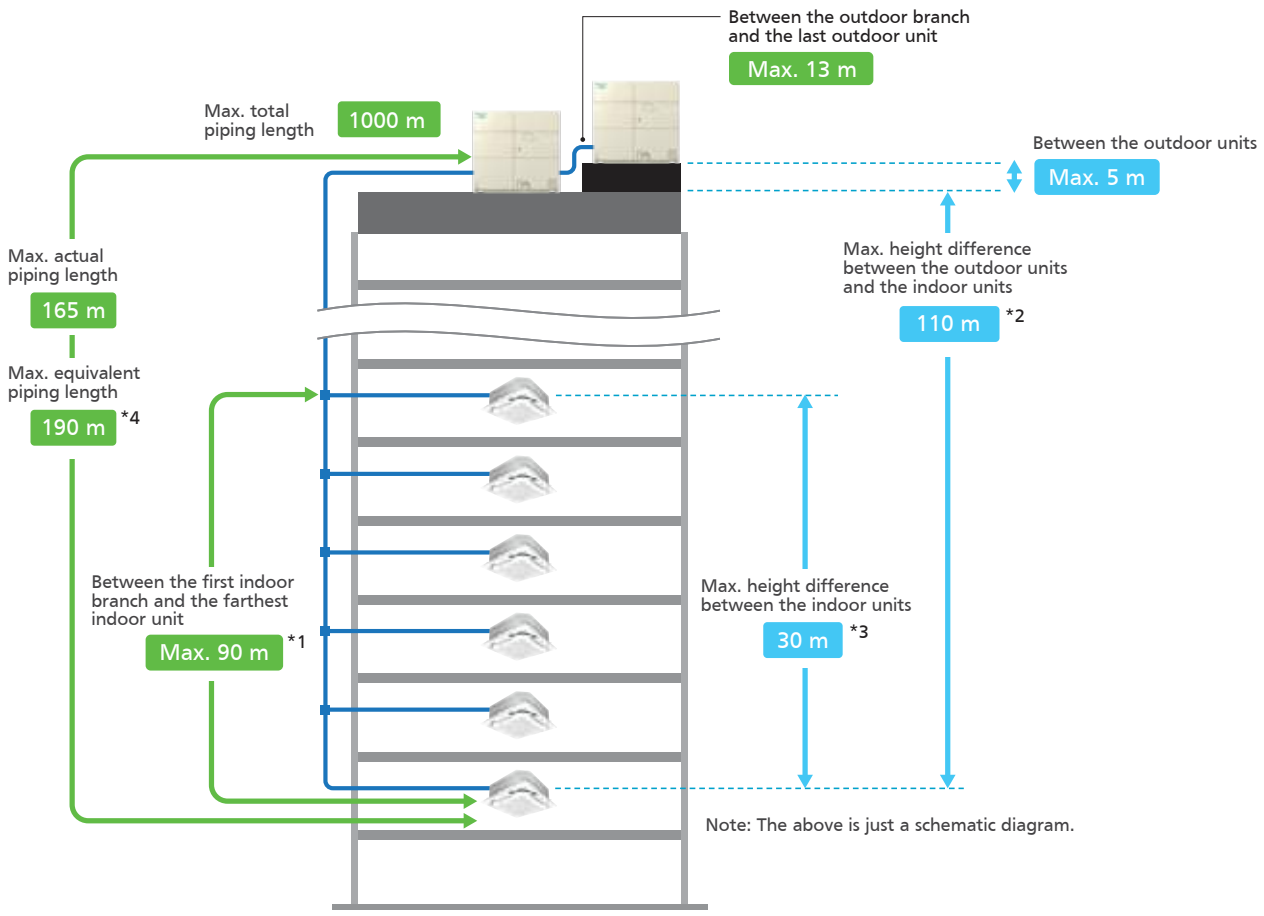
Piping branch by REFNET joint is possible downstream of REFNET header.
The indoor unit arrangement can be more flexible.




| REFNET header | Indoor unit total capacity at REFNET joint |
|---|---|
| KHRP26M22H,KHRP26M33H,KHRP26M72H | < 50 |
| KHRP26M73H + KHRP26M73HP | ≤ 140 |

## Long piping length

Long piping length enhances design flexibility, enabling support for large buildings




| | | |
|---|---|---|
| Maximum allowable piping length | Actual piping length (Equivalent) | 165 m (190 m)*4 |
| | Total piping length | 1000 m |
| | 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) |
| Maximum allowable height difference | Between the outdoor units (Multiple use) | 5 m |
| | Between the indoor units | 30 m*3 |
| | Between the outdoor units and the indoor units | 110 m*2 |

*1. No special requirements up to 40 m. The maximum actual piping length can be 90 m, depending on conditions. Various conditions and requirements have to be met to allow utilisation of 90 m piping length. Be sure to refer to the Engineering Data Book for details of these conditions and requirements.

*2. When Height differences above 50 m if the outdoor unit is above the indoor unit and 40 m if the outdoor unit is below 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 Height differences are 15 m or more, maximum actual piping length must be 120 m.

*4. If equivalent piping length from outdoor unit to indoor unit is 90 m or more, make sure to size up the liquid and gas pipes of the main piping.

# Design Flexibility

## Connection ratio

Connection capacity at maximum is 200%.

**Connection ratio**
**50%–200%**

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

Conditions of VRV indoor unit connection capacity

| Applicable VRV indoor units | | Indoor units: FXDQ | Indoor units: FXMQ-PB | Indoor units: FXAQ, Models | Other ***VRV*** indoor unit models*1 |
|---|---|---|---|---|---|
| Single outdoor units | 6~20 HP | 200% | | | 200% |
| | 22~24 HP | | | | 180% |
| | 26 HP | | | | 160% |
| Double outdoor units | | | | | 160% |
| Triple outdoor units | | | | | 130% |

*1 For the FXFQ25 and FXVQ 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 no. 75 for outdoor unit combination details.

# Easy Installation

## Improved refrigerant piping workability

By dividing piping and wiring holes to the left and right,
piping and wiring work can be easily performed on site.

Work becomes easier with sufficient space

## Process visualization (Test run only*)

In the new models, in addition to the actual step (t01 to t10), a progress rate (0% to 99%) is available as a guideline when making arrangements for on-site work.

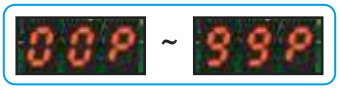
* Effective when test run is carried out independently after manual refrigerant charging.

Step code (t01 to t10)

Display of step code and progress rate alternately

Progress rate (0% to 99%)

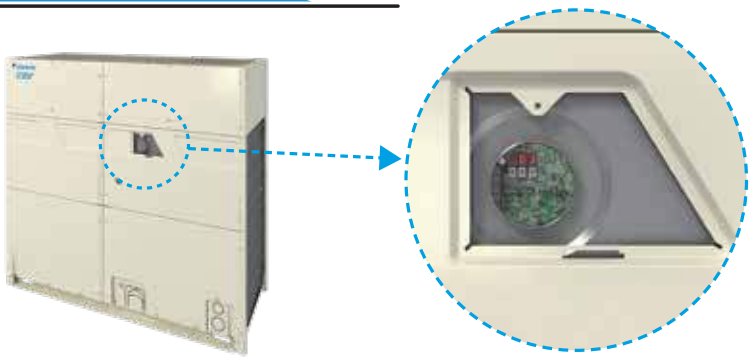
NEW




## Electrical component service window

An electrical component service window is newly installed on the front panel.
Main PCB 7-segment LED can be accessed without removing the front panel.

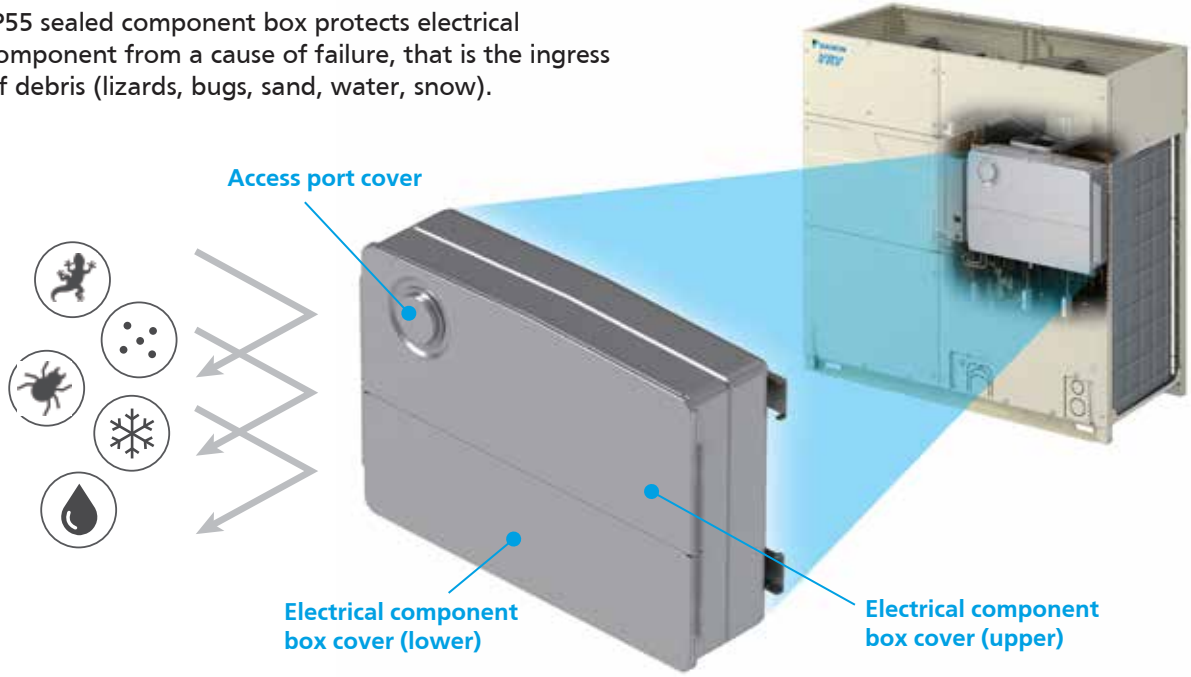
Workability is greatly improved during on-site setting or test run.
You can also quickly check the error code during service.

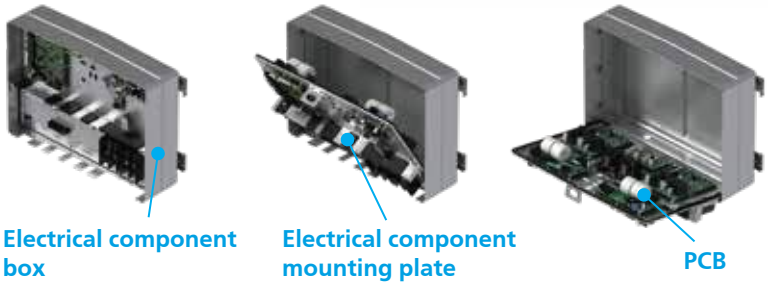


# Reliability & Comfort

## IP55-compliant sealed component box

IP55 sealed component box protects electrical component from a cause of failure, that is the ingress of debris (lizards, bugs, sand, water, snow).




The internal mounting plate is hinged, enabling easy maintenance of the PCB on the back.

## What is IP55?

IP55 is the degrees of dust and water protection for the electrical component box equipped on the product.

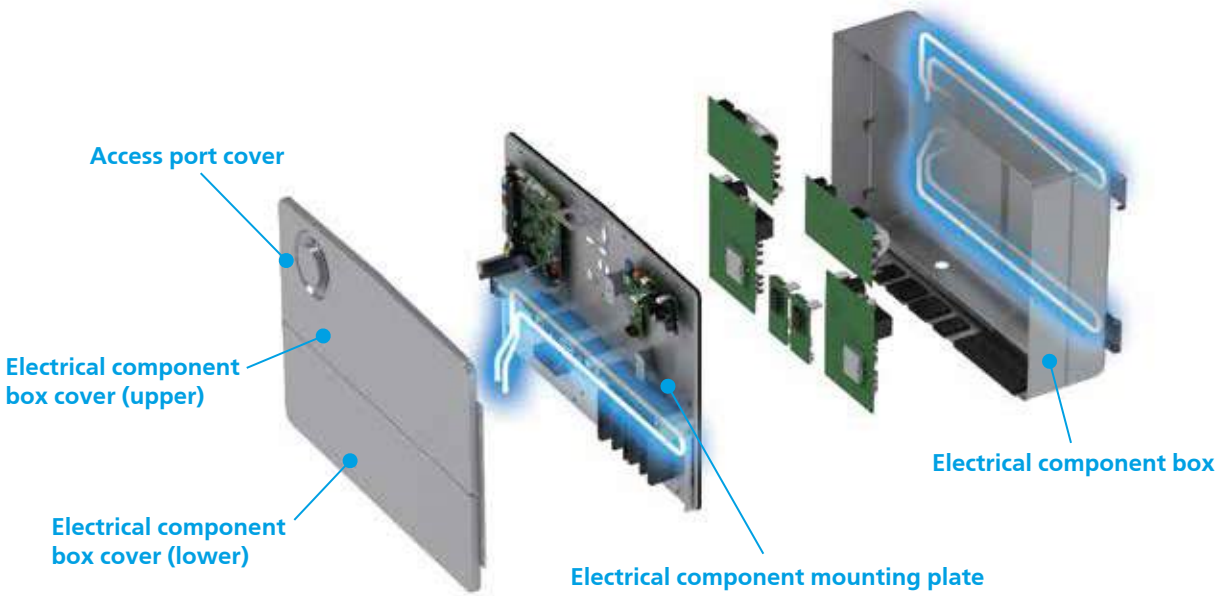
**IP55**

- **Liquid ingress protection** **Grade 5**
  Water projected by a nozzle (6.3 mm) against enclosure from any direction shall have no harmful effects.
- **Solid particle protection** **Grade 5**
  Ingress of dust is not entirely prevented, but it must not enter in sufficient quantity to interfere with the satisfactory operation of the equipment.
- **Ingress Protection**

*IP55 is the protection degree of the wiring box as a single unit.

## Enables operation in high outdoor temperature

Three refrigerant cooling circuits enable stable operation even in high outdoor temperatures by suppressing a temperature rise for the PCB mounted in the sealed electrical component box.




## Improved DC Fan Motor:

To enhance the durability and reliability of Daikin VRV units, the ingress protection rating has been upgraded to IP44. This improvement provides better protection against solid objects and water ingress, ensuring superior performance in challenging environmental conditions.

IP44

**Liquid ingress protection** **Grade 4**

Protection against **water splashing** (enclosure from any direction )

**Solid particle protection** **Grade 4**

Protection against the solid foreign objects of 1.0mm diameter or greater.

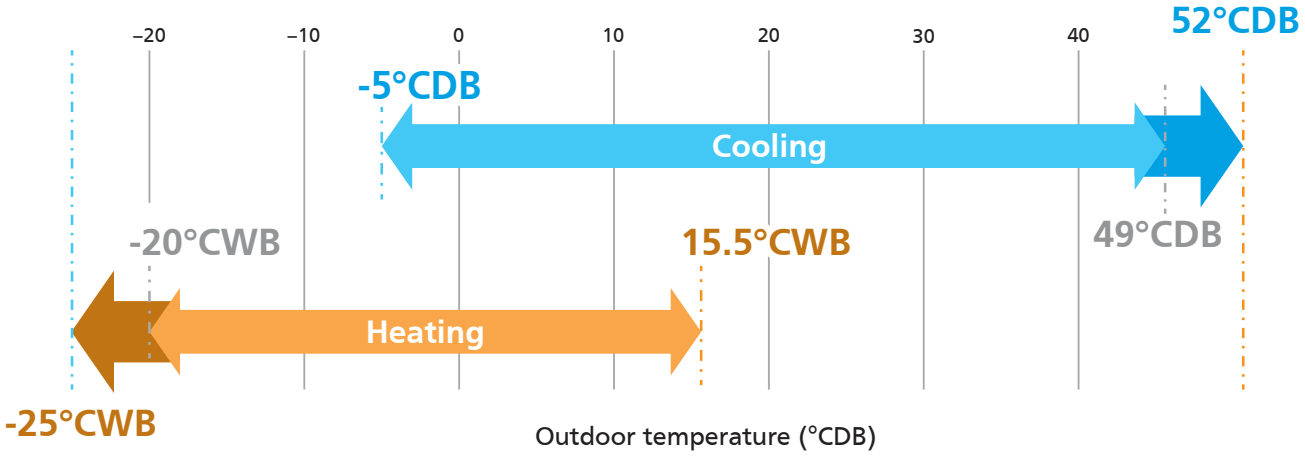
**Ingress Protection**

# Reliability & Comfort

## Extended operation temperature range

Operation is now possible for a wider range of outdoor temperatures.

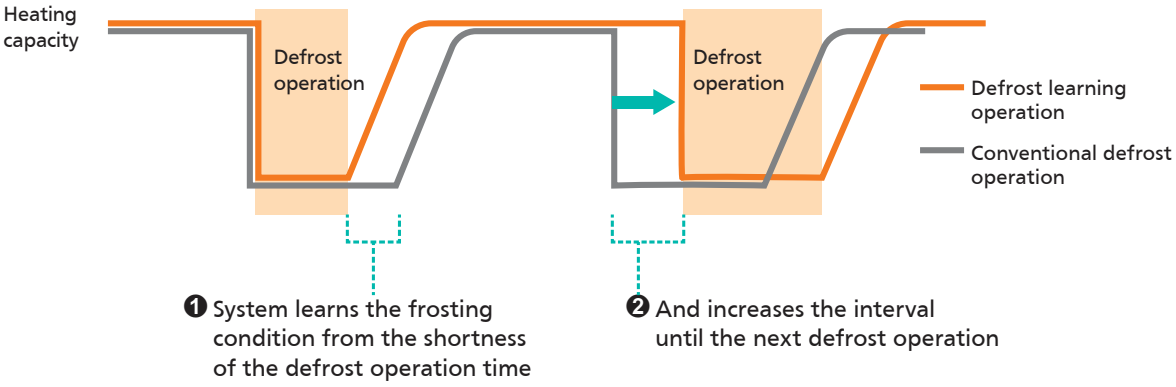
**Upper limit up to 52°CDB in Cooling mode**
**Lower limit down to -25°CWB in Heating mode**




## Defrost learning function

If defrost operation time is short, the system will optimise defrost start conditions for the next cycle, Improving comfort by extending the heating operation time.

**Heating operation time improved by up to 10%!**

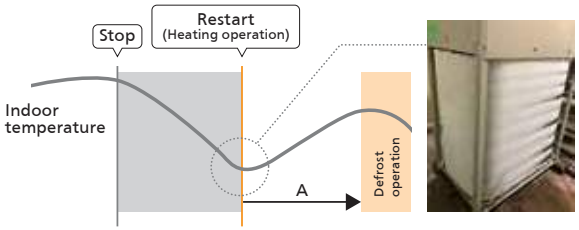



## Defrost before stop

Defrost operation before the equipment is shut down speeds up the increase of discharge air temperature of the next heating operation, and extends the continuous heating operation time after restarting, thereby improving comfort.

Heating operation time is improved by up to 30%!

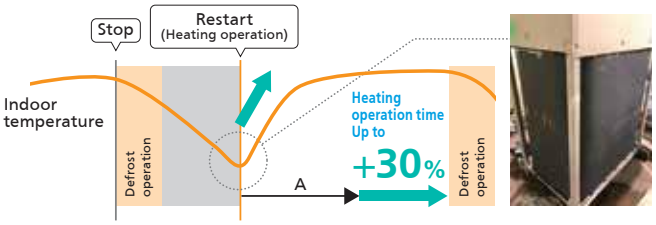
### Conventional defrost operation




Due to the low discharge air temperature, the defrost operation starts before the room temperature has fully increased.

Frost from the previous heating operation remains in the heat exchanger before restarting.

### Defrost before stop




**Defrost operation is performed before the unit is shut down.**

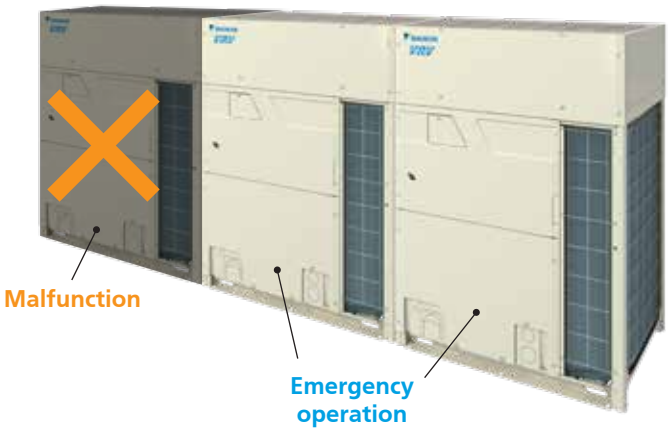
**Discharge air temperature in heating operation rises quickly**

There is no frost on the heat exchanger before restarting.

* Conditions for effectiveness estimation : Outdoor air temperature 2°C
Round flow cassette with sensing operating at 100% capacity

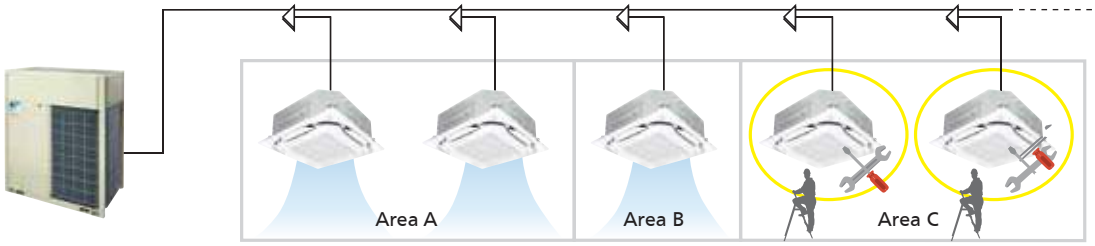
## Unit backup operation function

If malfunction occurs in an outdoor unit, emergency operation can be conveniently set and enabled by the remote controller for indoor unit (for systems composed of two or more outdoor units).




## Ease of Maintenance

VRV Alpha series provides a maintenance feature* which allows the shut down 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.

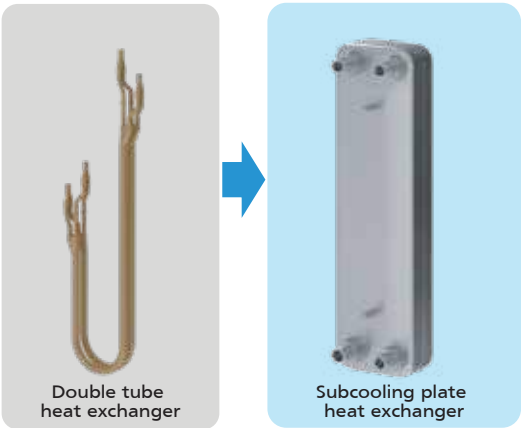
## Free phase technology

Phase reversal occurs in areas where power supply is frequent. At the time of power recovery, phase reversal may take place due to AC source and device may stop for PCB protection. By employing Free Phase technology, continued operation is achieved.

# Reliability & Comfort

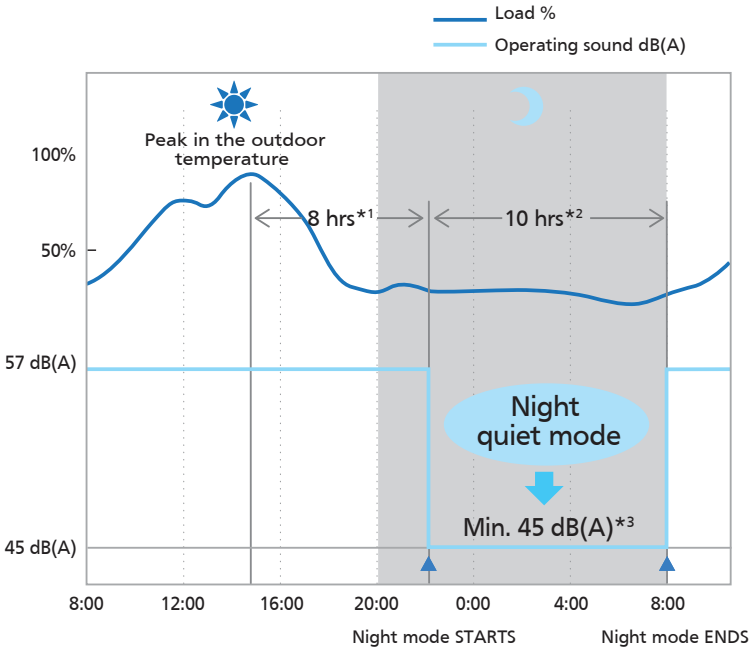
## Subcooling Plate Heat Exchanger

The plate heat exchanger has a larger heat exchange capacity than the conventional double tube type and the amount of refrigerant supplied to the indoor unit can be reduced.
As a result, pressure loss in the indoor/outdoor connection pipes can be reduced to achieve high energy saving performance.




## Nighttime quiet operation function

The nighttime quiet operation function automatically suppresses the nighttime operating sound by reducing operation capacity to maintain the quiet environment of the neighborhood.
Three selectable modes are available depending on the required level.




*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.

Notes:
- 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.
- Automatic Refrigerant charge function

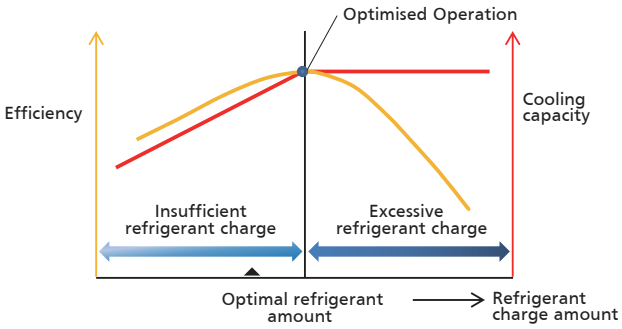
# Automatic Refrigerant Charge Function

**Contribute to optimised operation efficiency, higher quality and easier installation**

## Optimised operation efficiency

The automatic refrigerant charge function automatically determines the optimal amount of refrigerant to be charged.

This function prevents a capacity shortage or energy loss due to excessive or insufficient refrigerant.




## Higher quality and easier installation

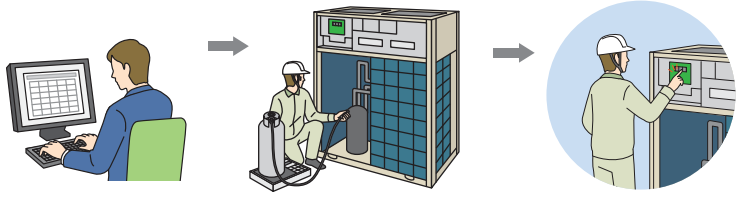
The automatic refrigerant charge function automates the charging of the proper refrigerant amount and the closing of shut-off valves with just one press of the switch after pre-charging. Simplified installation eliminates excessive and insufficient refrigerant charge amounts due to calculation mistakes and this has led to higher installation quality.

**Conventional**

1. Calculate necessary refrigerant amount from design drawing
2. Recalculate refrigerant amount from final installation drawing
3. Charge refrigerant
4. Regularly check refrigerant weight on weighing scale
5. Complete by manually closing valves when proper weight is reached

**VRV α™**

1. Calculation of necessary refrigerant amount from design drawing
2. Pre-charge of refrigerant*
3. Start of automatic refrigerant charge operation



- Automatic completion with optimal refrigerant amount
- Monitoring refrigerant charging is not required
- No recalculation of charge amounts due to minor design changes at site

*Pre-charge amount changes according to conditions, and there are cases when pre-charging is unnecessary.

## Multiple advanced features ensuring more accurate test operation and stable system

### Efficient automatic test operation

Automatically checks the wirings between outdoor units and indoor units to confirm whether there is a defective wiring.

### Confirms and corrects the actual piping length.

Automatically checks whether the stop valve in each outdoor unit is in normal status to ensure the smooth operation of air conditioning system.

**Automatic check**

# Indoor Unit Line-Up

## Enhanced Range Of Choices

A variety of VRV indoor units is enabled in one system, opening the door to stylish and quiet indoor units.

### VRV Indoor Units

**16 types 77 models**

| Type | | Model Name | Capacity Range | 0.8 HP | 1 HP | 1.25 HP | 1.6 HP | 2 HP | 2.5 HP | 3 HP | 3.2 HP | 3.6 HP | 4 HP | 5 HP | 6 HP | 7 HP | 8 HP | 10 HP | 16 HP | 20 HP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Capacity Index | 20 | 25 | 32 | 40 | 50 | 63 | 71 | 80 | 90 | 100 | 125 | 140 | 170 | 200 | 250 | 400 | 500 |
| Ceiling Mounted Cassette Round Flow & Round Flow with Sensing (Optional) | VRT | FXFSQ-ARV16 VRT Smart Control | | | ● | ● | ● | ● | ● | | ● | | ● | ● | ● | | | | | |
| Ceiling Mounted Cassette (Compact Multi Flow) | VRT | FXZQ-CRV16 VRT Smart Control | | ● | ● | ● | ● | ● | | | | | | | | | | | | |
| Ceiling Mounted Cassette (Double Flow) | VRT | FXCQ-BVM6 | | | ● | ● | ● | ● | ● | | ● | | | ● | | | | | | |
| Ceiling Mounted Cassette Corner | New | FXKQ-AV | | | | ● | ● | ● | ● | | | | | | | | | | | |
| Slim Ceiling Mounted Duct | VRT | FXDQ-PDV36 (with drain pump) VRT Smart Control | (700mm width type) | ● | ● | ● | | | | | | | | | | | | | | |
| | VRT | FXDQ-NDV36 (with drain pump) VRT Smart Control | (900/1,100mm width type) | | | | ● | ● | ● | | | | | | | | | | | |
| Ceiling Mounted Duct | VRT | FXMQ-PAVE/PBV36 VRT Smart Control | | ● | ● | ● | ● | ● | ● | | ● | | ● | ● | ● | | | | | |
| | VRT | FXMQ-NVE | | | | | | | | | | | | | | ● | ● | ● | | |
| Mid Static Ceiling Mounted Duct | VRT VRT | FXMQ-ARV16 | | | | | ● | ● | ● | | ● | | ● | | | | | | | |
| Ceiling Suspended | VRT | FXHQ-MAVE/BVM6 | | | | ● | | | ● | | | | ● | ● | ● | | | | | |
| 4-Way Flow Ceiling Suspended | VRT | FXUQ-AVEB | | | | | | | | ● | | | ● | | | | | | | |
| Wall Mounted | VRT | FXAQ VRT Smart Control | | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | |
| Floor Standing | VRT | FXLQ-MAVE | | | | ● | | ● | ● | | | | | | | | | | | |
| Concealed Floor Standing | VRT | FXNQ-MAVE | | | | ● | | ● | ● | | | | | | | | | | | |
| Multi Cube/Spot | New | FXPQ-AVM | | | ● | | | | | | | | | | | | | | | |
| Floor Standing Duct | VRT | FXVQ-NY1(6) | | | | | | | | | | | | ● | | | ● | ● | ● | ● |

At Daikin, we offer a wide range of indoor units, including both VRV and residential models, responding to a variety of needs of our customers that require air conditioning solutions.

## VRV Indoor Units

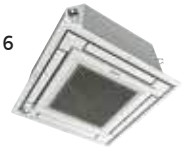
### Ceiling Mounted Cassette Round Flow & Round Flow with Sensing (Optional)

FXFSQ-ARV16

Presence of people and floor temperature can be detected to provide comfort and energy savings.

### Ceiling Mounted Cassette (Compact Multi Flow) Type

FXZQ-CRV16



Quiet, compact and designed for users comfort.

### Ceiling Mounted Cassette (Double Flow) Type

FXCQ-BVM6

Add finishing touch to your ceiling, with enhancing function and design.

### Ceiling Mounted Cassette Corner Type

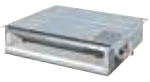
FXKQ-AV

New

Slim design for flexible installation.

### Slim Ceiling Mounted Duct Type

FXDQ-PDV36



FXDQ-NDV36

Slim design, quietness and static pressure switching.

### Ceiling Mounted Duct Type

FXMQ-PBV36

FXMQ-ARV16

FXMQ-NVE

High/Mid external static pressure allows flexible installations.

### 4-Way Flow Ceiling Suspended Type

FXUQ-AVEB

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

### Ceiling Suspended Type

FXHQ-MAVE/BVM6

Slim body with quiet and wide airflow.

# Indoor Unit Line-Up

VRV α™

## Floor Standing Duct Type

FXVQ-NY16
(High static pressure type)

Large airflow type for large spaces.
Flexible interior design for each tenant.

## Floor Standing Type

FXLQ-MAVE

## Concealed Floor Standing Type

FXNQ-MAVE

Suitable for perimeter zone air conditioning.

## Wall Mounted Type

FXAQ

Stylish flat panel design harmonised with your interior décor.

## Multi Cube (Spot AC) Type

FXPQ-AVM

New

New solution in large space comfort.

# VRV Indoor Units

## Ceiling Mounted Cassette Round Flow & Round Flow with Sensing (Optional)

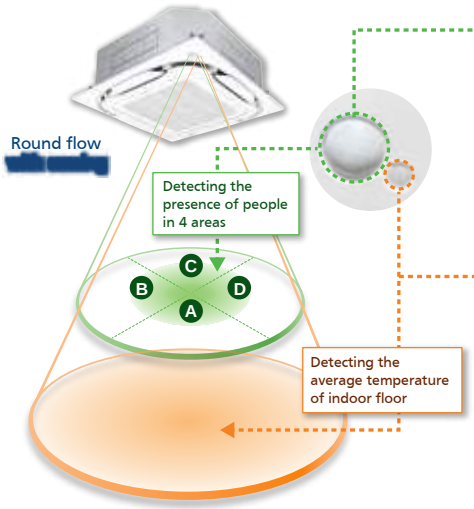
**FXFSQ25A / FXFSQ32A / FXFSQ40A / FXFSQ50A / FXFSQ63A / FXFSQ80A / FXFSQ100A / FXFSQ125A / FXFSQ140A**

VRT Smart Control

**Round flow with sensing** (Optional)

## Presence of people and floor temperature can be detected to provide comfort and energy savings.

### Dual sensors*1




#### Infrared presence sensor

The 4 sensors detect human presence.

| Ceiling height | 2.7m | 3.5m | 4.0m |
|---|---|---|---|
| Detection range (diameter)*3 | approx. 8.5m | approx. 11.5m | approx. 13.5m |

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

#### Infrared floor sensor

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 (diameter)*4 | approx. 11m | approx. 14m | approx. 16m |

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

### Various sensing functions

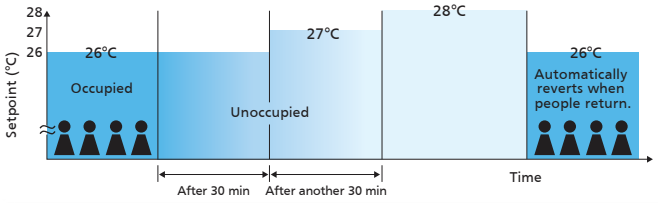
### Sensing sensor mode*5*6

#### 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.

Example
- Cooling setpoint: 26°C
- Shift temperature: 1.0°C
- Shift time:30 min.
- Limit cooling temperature:30°C




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

For More information 'Scan Me'

*1. Applicable when sensing panel (BYCQ140EEF6/BYCQ125EEK) is installed.
*5. These functions are not available when using the group control system.
*6. User can set these functions with remote controller.

# Indoor Unit Line-Up

## VRV Indoor Units

### Sensing sensor stop mode (default: OFF)

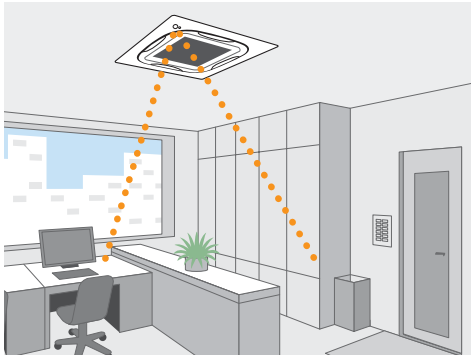
When there are no people in a room, the system stops automatically.*7

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.

*7. Please note that upon re-entering the room, air conditioner will not switch on automatically.

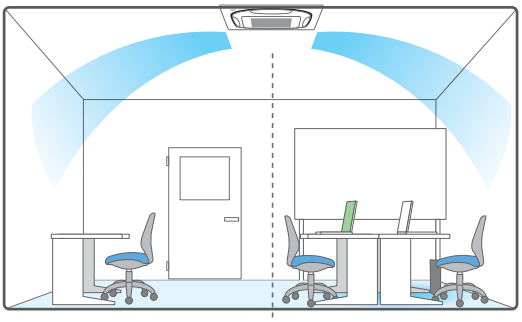


### Auto airflow function*8

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

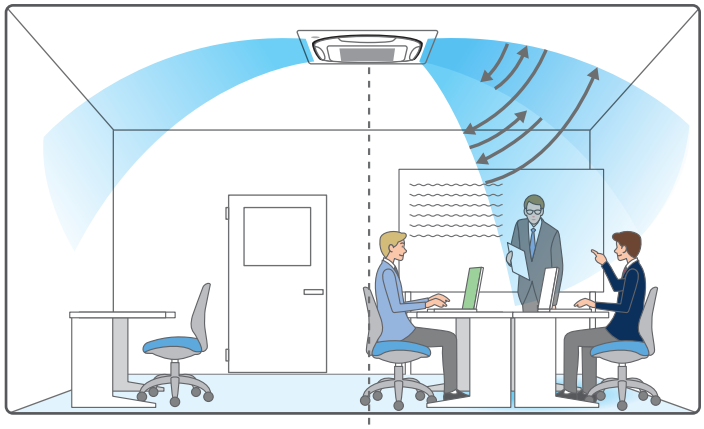
New **Direct Airflow (default: OFF)** Cooling Dry

**When human presence is not detected**



Optimal air direction by "Auto"

**When human presence is detected**



Optimal air direction by "Auto" **Swing (narrow)**

- 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.

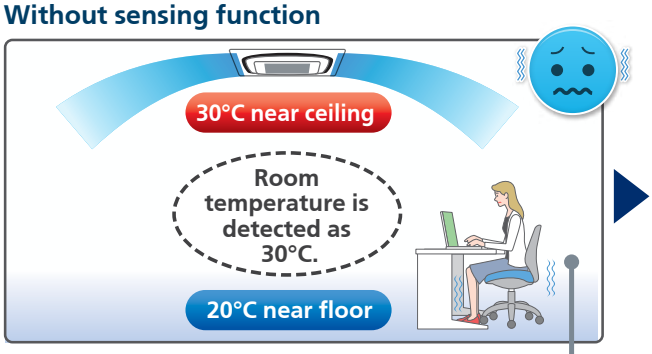
## Comfort and energy saving preventing over cooling*9

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

### Floor temperature is detected and over cooling prevented.

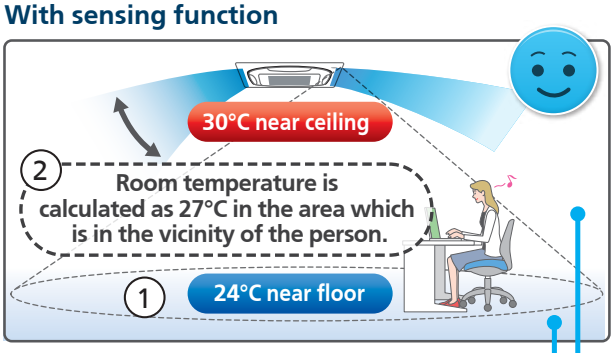
Cooling

**Without sensing function**




Area around feet gets too cold because air conditioner continues until the temperature near the ceiling reaches the set temperature.

**With sensing function**




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

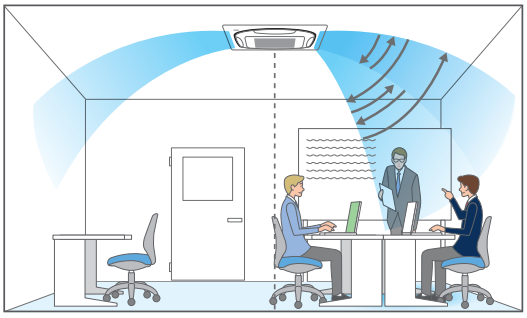
Automatic control using the temperature near the person as the room temperature.

**Energy savings** 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.

### New Circulation Airflow

The illustration shows typical airflow. Effectiveness may differ according to room conditions, room size and distance to walls.

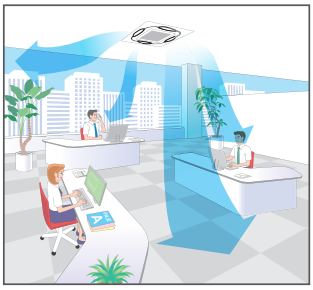
### New Direct Airflow



Optimal air direction by ‡Auto·

Swing (narrow)

### Individual Airflow Direction Control



The illustration shows typical airflow.

# Indoor Unit Line-Up

## New Wide variety of decoration panels (Option)

- Designer choice has been given a boost with the increase in number of new types of decoration panels.

Standard panel with sensing

Designer panel*2

Standard panel*2

## New Designer panel (Option)

### Decoration Panel Line-up (Option)

**Standard panel*1**
BYCQ125EAF6 (Fresh White)

**Standard panel*1**
BYCQ125EAK (Black)

**Designer panel*1**
BYCQ125EAPF (Fresh White)

*1. Sensing function is applicable when sensing panel is installed.

**Sensing panel**
BYCQ140EEF6 (Fresh White)

**Sensing panel**
BYCQ125EEK (Black)

## New Auto grille panel (Option)*1

- Clogged filters strain performance of the indoor unit and may result in breakdowns. Impeded airflow through the filter also lowers operational efficiency, which increases electricity bills.
  With the auto grille, anyone can easily clean the filter, which translates to lower maintenance cost and longer life of the air conditioner.
- With the auto grille panel, motorised raising and lowering allows suction panel and air filter cleaning to be carried out without the need for a step ladder.

A dedicated wireless remote controller is supplied with the auto grille panel.

For these situations recommended
- Where the air is dusty and likely to soil the air conditioner.
- Where simple and quick filter and grille cleaning is a worthwhile benefit.

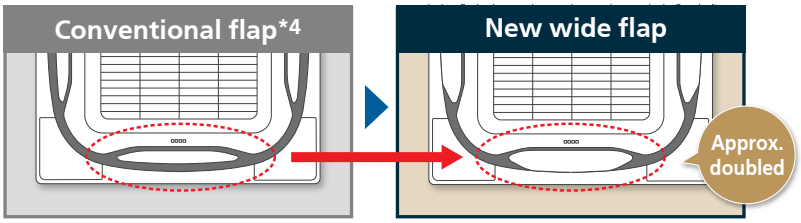
**Auto grille panel*1**
BYCQ125EASF (Fresh White)

## Three technologies that achieved circulation airflow

Flow-out is straight, horizontally and strong, so the air travels far and even reaches the wall from which it falls to the floor. This approach and technology makes circulation airflow possible.

### 1 Use of new wide flaps (Straight)

Compared to conventional models, the new wide flap increases straightness of the airflow, so coverage is approximately doubled.



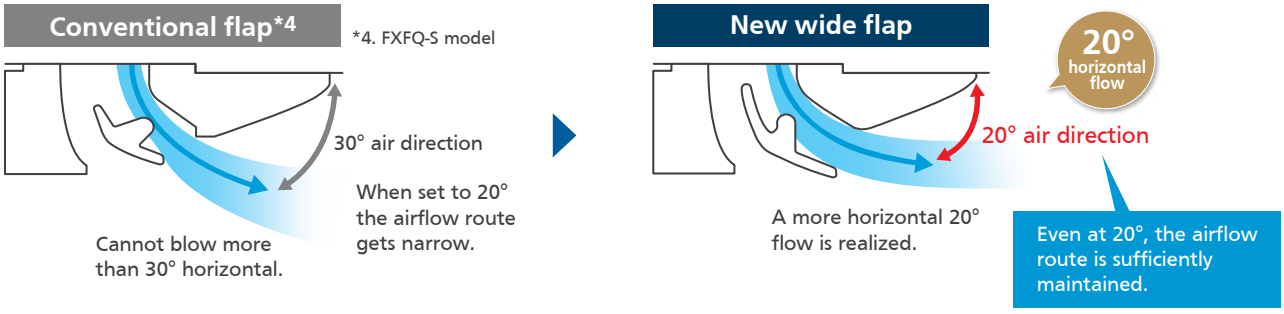

*4. FXFQ-S model

#### New wide flap construction inhibits ceiling dirt and grime

By tapering both flap ends, the airflow that causes dirty ceilings is directed downward.

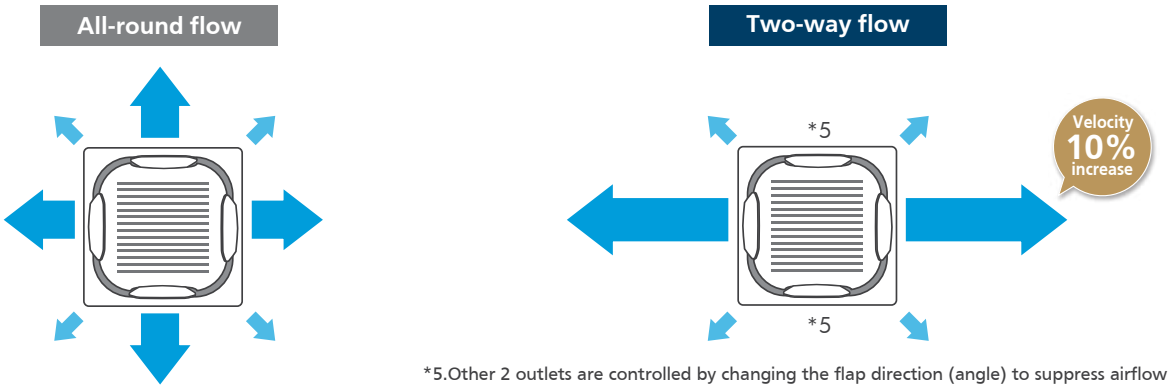
### 2 Optimising airflow angle (Horizontally)

Even with the flap angle raised, a sufficient airflow route is maintained to realize a more horizontal airflow angle.




### 3 Increased velocity in 2-way flow (Strongly)

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




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

# Indoor Unit Line-Up

VRV α™

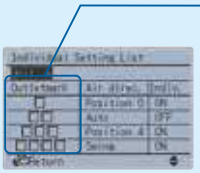
*1. Applicable when wired remote controller BRC1E63 is used.

## Comfortable air conditioning for all room layouts and conditions

Airflow direction can be individually adjusted for each air discharge outlet to deliver optimal air distribution.

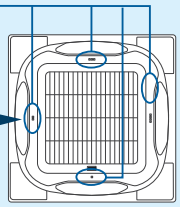
### Easy setting is possible with a wired remote controller.

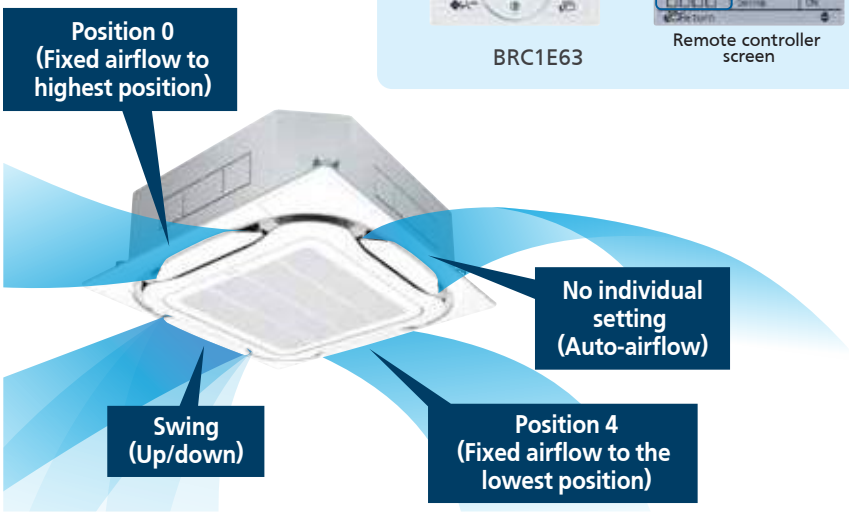
BRC1E63



Remote controller screen

There are identification marks near the air outlets.





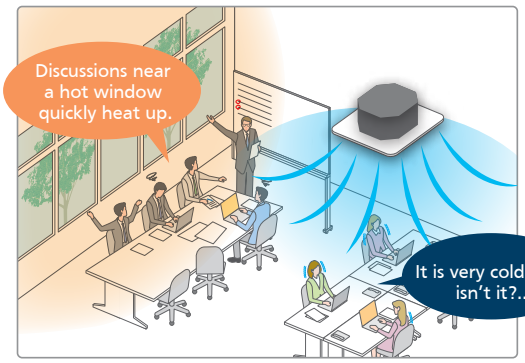

### Individual airflow settings

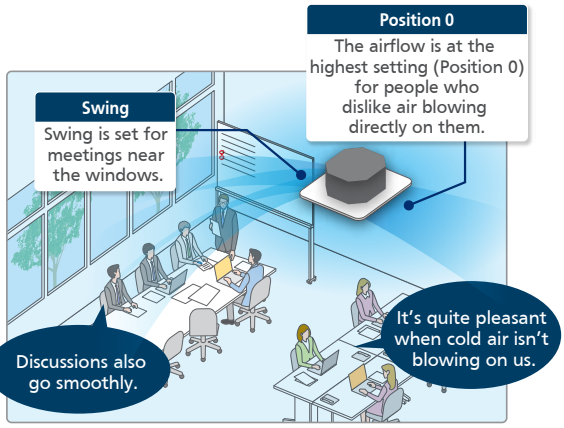
- No individual setting (Auto airflow)
- Position 0 (Highest point)
- Position 1
- Position 2
- Position 3
- Position 4 (Lowest point)
- Swing

Individual settings are possible as stated above.

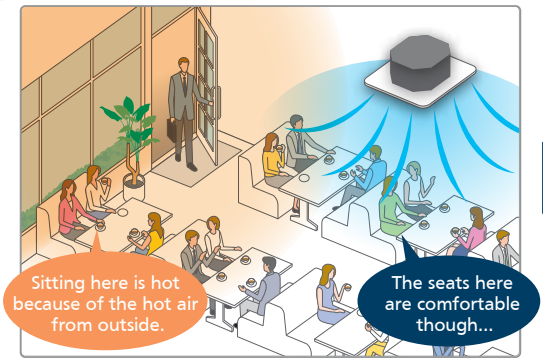
## When individual airflow is selected, airflow direction can be adjusted to room layout.

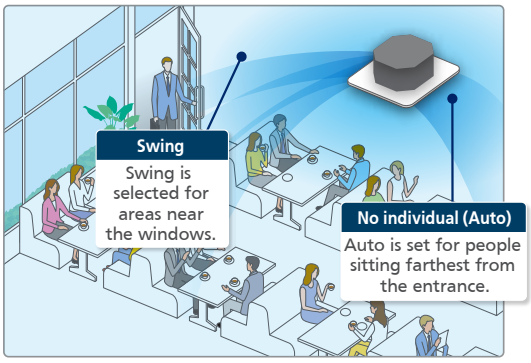
### For offices




### For shops and restaurant

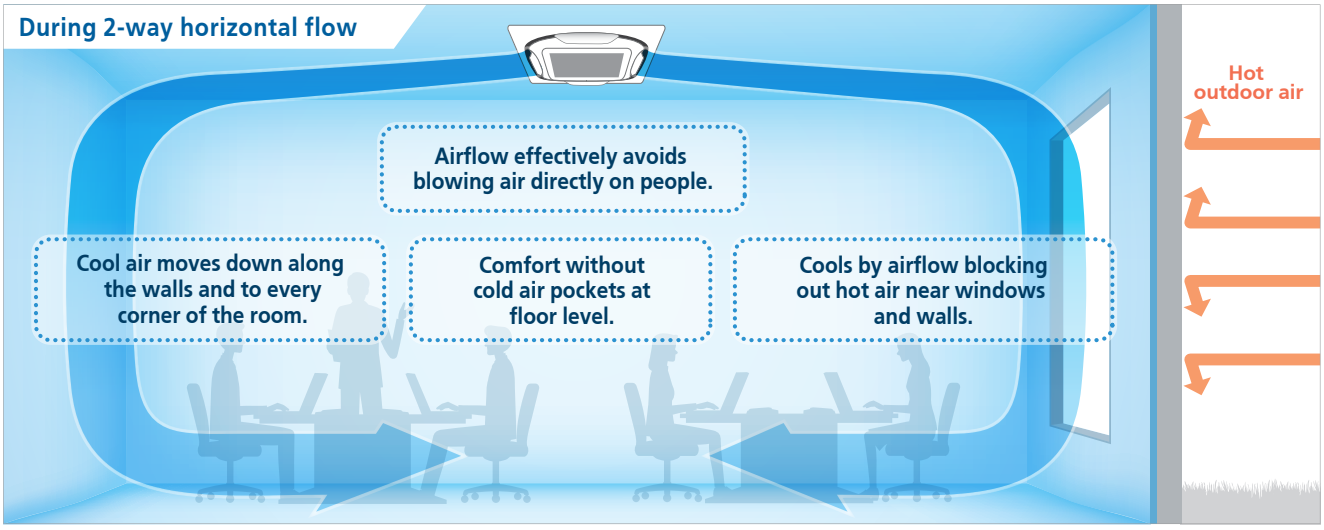


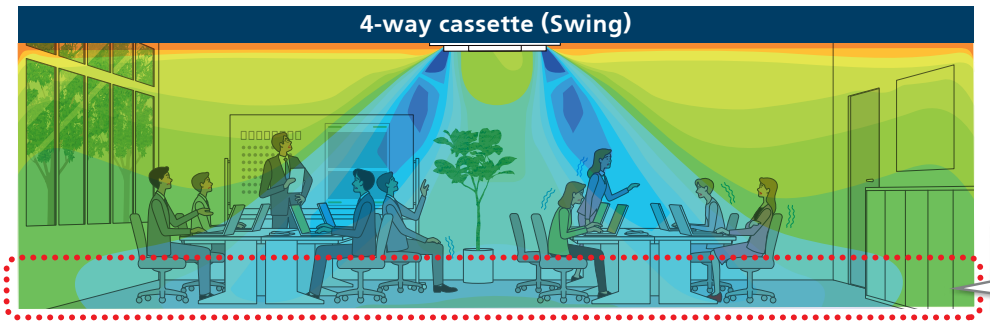
# Circulation Air Flow

*1. Applicable when wired remote controller BRC1E62 is used.
*2. Not applicable when using individual airflow direction control.

## Circulation airflow cools the entire room to deliver comfort that never feels cold




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

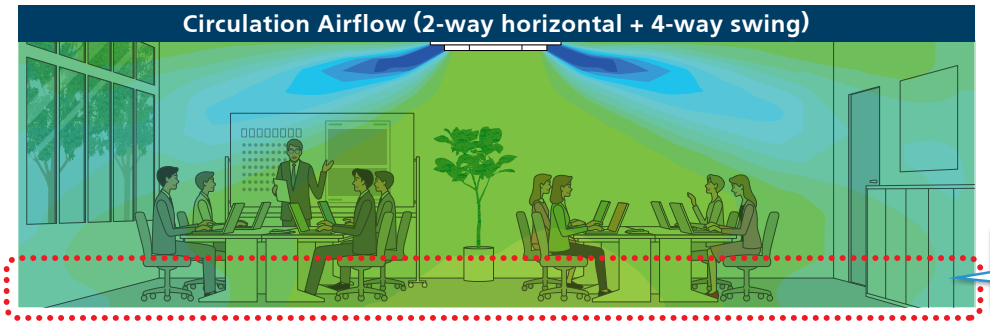



30.0
29.0
28.0
27.0
26.0
25.0
24.0
23.0
22.0
21.0
20.0

**Comparison Conditions**

- Room size: 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: high / swing

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

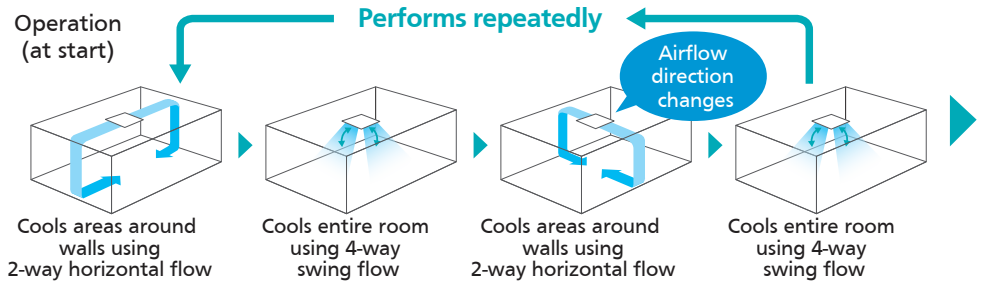



**Approx. 5% energy savings by reducing uneven temperatures**

*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.

## Configurations of Circulation Airflow



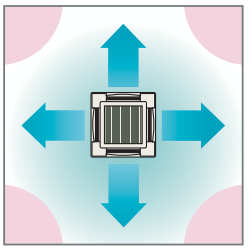

**When the target temperature is reached, normal operation (all-round flow) begins.**

Note: Results may vary depending on equipment conditions, room size and distance from indoor unit to walls.

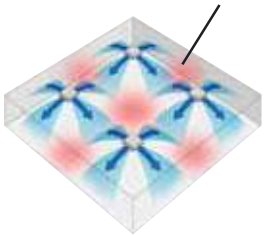
# Indoor Unit Line-Up

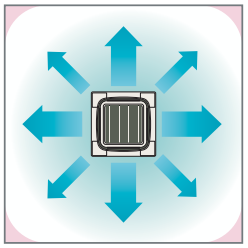
## Comfortable airflow

- Indoor unit offers 360° airflow discharges air in all directions with more uniform temperature distribution.



There are areas of uneven temperature.

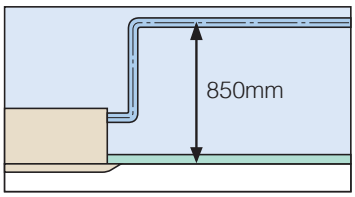


There are much fewer areas of uneven temperature.

## Easy installation

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



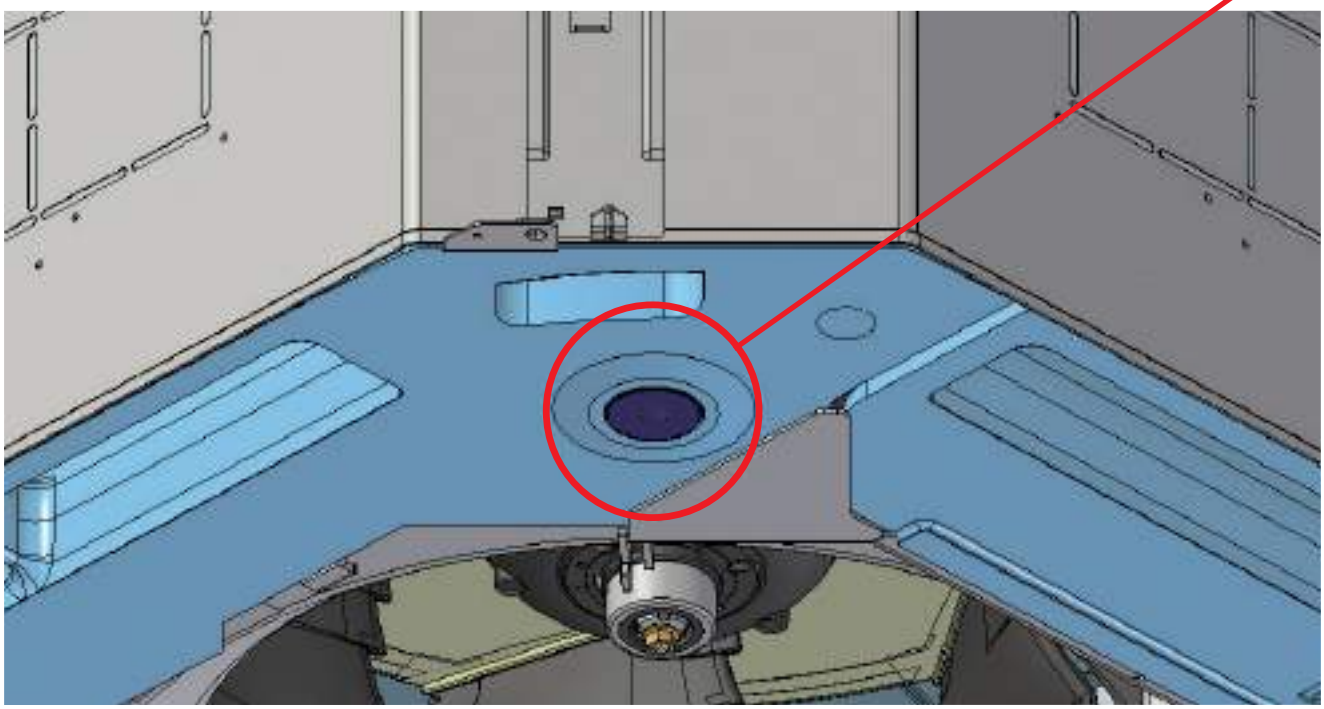

## Easy maintenance

- Internal hygiene can be easily checked without removing the whole panel. Simply opening the suction panel allows the internal drain pan to be checked.

New

- 24mm diameter drain outlet

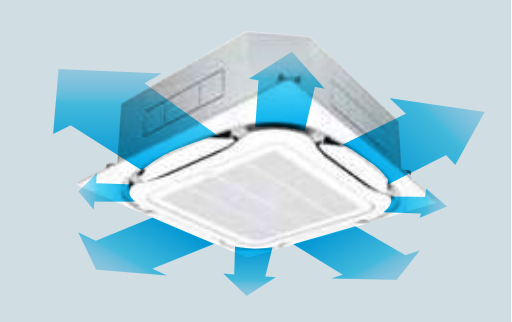
The drain outlet allows insertion of a finger or dental mirror for inspection of the internal cleanliness of the drain pan. Removal of the suction panel enables access.



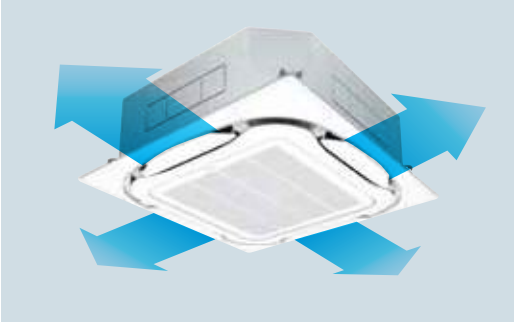
## Example of airflow patterns

All-round flow is available, as well as 2-way to 4-way flows, so you can choose the most suitable airflow pattern depending on location or room layout.

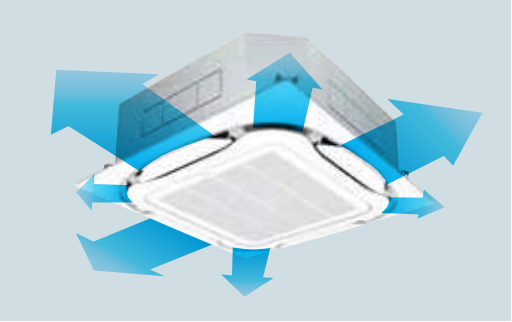
**All-round flow**



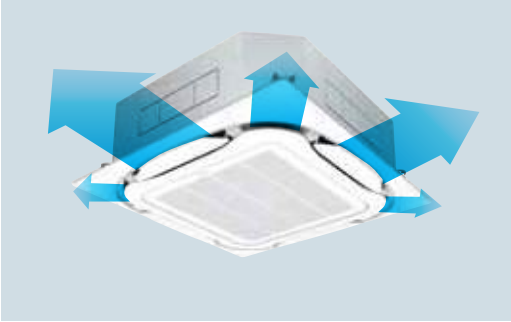
**4-way flow**



**3-way flow**



**L-shaped 2-way flow**



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.

All-round flow is available, as well as 2-way to 4-way flows, so you can choose the most suitable airflow pattern depending on location or room layout.

- 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.

New

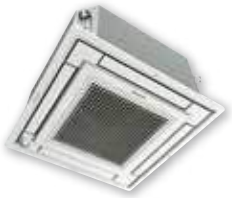
- Control of the airflow rate can be selected from 5-step control and auto.

# Indoor Unit Line-Up

## VRV Indoor Units

### Ceiling Mounted Cassette (Compact Multi Flow Cassette) Type

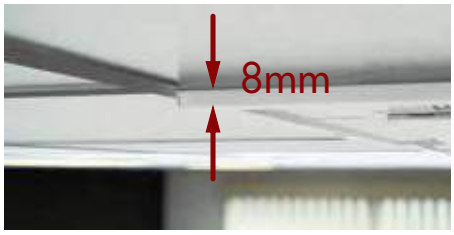
**FXZQ20CRV16 / FXZQ25CRV16 / FXZQ32CRV16 / FXZQ40CRV16 / FXZQ50CRV16**



VRT Smart Control

*FXZQ-CRV16

**No Trap Door requirement**



## Quiet, Compact, Designed for user comfort

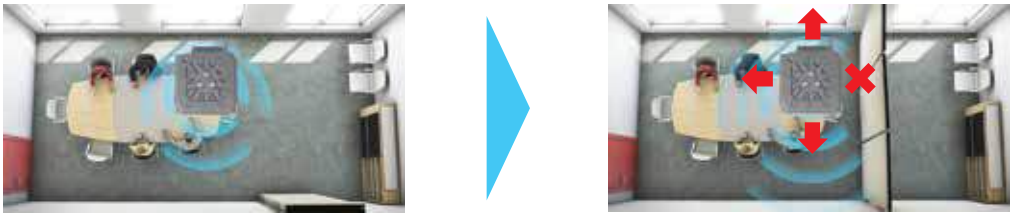
**Compact & Elegant Design**

- Fully-flat integration in standard architectural ceiling tiles, leaving only 8mm.
- Remarkable blend of iconic design and engineering excellence with an elegant finish in white.
- The newly designed panel integrates fully within one ceiling tile enabling lights, speakers and sprinklers to be installed in the adjoining ceiling tiles.

**Efficiency & Comfort**

- Two optional intelligent sensors improve energy efficiency and comfort.
- An optional presence and floor sensor kit can be fitted to the cassette for draught prevention, energy-saving operation and to provide optimal control of airflow.

**Individual airflow direction control: Flexibility to suit every room layout without changing the location of the unit.**



**Auto swing (up/down)**

Possibility to select automatic vertical moving of the air discharge flaps for efficient air and temperature distribution throughout the room.

**Ceiling soiling prevention**

- Prevents air from blowing against the ceiling to prevent ceiling stains.
- Reduced energy consumption, thanks to the specially developed small tube heat exchanger, DC fan motor, and drain pump optional fresh air intake kit.

## VRV Indoor Units

### Ceiling Mounted Cassette (Double Flow) Type

**FXCQ25BVM6 / FXCQ32BVM6 / FXCQ40BVM6 / FXCQ50BVM6 / FXCQ63BVM6 / FXCQ80BVM6 / FXCQ125BVM6**

# Add finishing touch to your ceiling, with enhancing function and design.

Stylish unit blends easily with any interior. Integrated ceiling surface with sophisticated panel design with the adoption of flat flap. Add finishing touch to your ceiling, with enhancing function and design.

- Individual airflow direction control (Unavailable during automatic airflow mode, airflow angle: configurable from 0 to 4 swing positions.)

**Individual flap control**

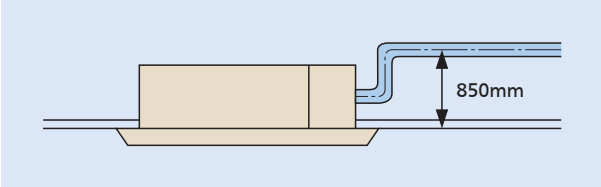
The flat flaps close entirely when the unit is not operating and there are no air intake grilles visible.

- Reduced energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump.

**Enhanced functions from various aspects such as maintenance**

- Check contamination in drain pan by simply removing suction grille and panel.
- The flap parts are easy to clean because it is hard to condensate and get dirty.
- 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.
- Drain pump is equipped as standard accessory with 850mm lift.

Adjuster Pocket




- 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.)

Drain socket part

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

# Indoor Unit Line-Up

## Ceiling Mounted Cassette Corner Type

**FXKQ32AV / FXKQ40AV**
**FXKQ50AV / FXKQ63AV**

This new Indoor unit has been awarded with Good Design Award

GOOD DESIGN

- Very Compact & Elegant Design
- Sleek panel with dual tone styling that give rational choice of elegancy
- Flexibility to install on several height false ceiling minimum up to 3.9 inches (100mm) with the help of multiple spacers (Optional).

White Color Panel

Base Color: Black
Surface color: White
Model no.: BYKQ63AHW

Base Color: White
Surface color: White
Model no.: BYKQ63AW

Silver Color Panel

Base Color: Black
Surface color: Silver
Model no.: BYKQ63AHS

# VRV Indoor Units

## Installation with Panel Spacers

It has the flexibility to install on several height false ceiling i.e its ceiling height can be minimize with multiple optional by spacers (25mm each) from 25mm to 75mm

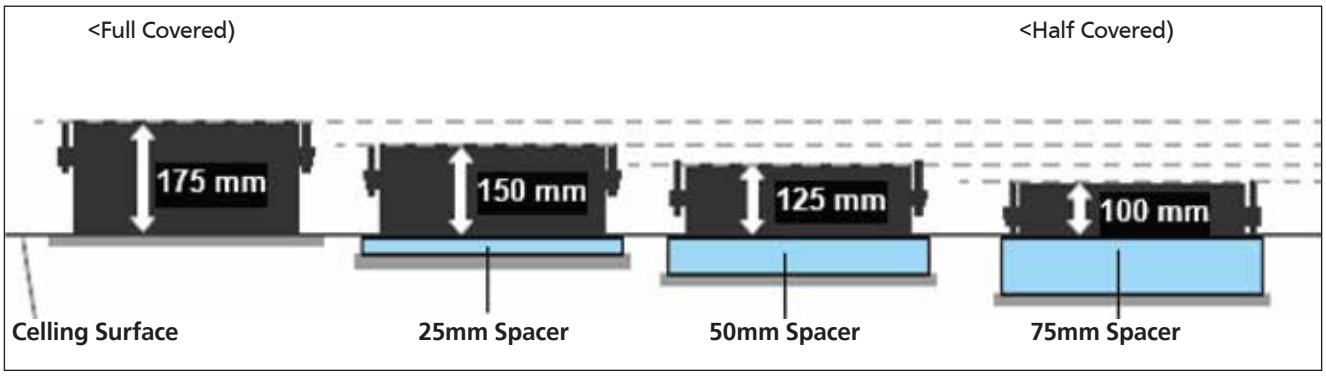
Note- Spacer colour- Dark gray

Standard Ceiling Height
175mm (6.88 Inches)
145mm IDU height + 30mm clearance

→ Reduced by 25mm
150mm (5.9 Inches)

→ Further
Reduced by 25mm
125mm (4.9 Inches)

→ Further
Reduced by 25mm
100mm (3.9 Inches)

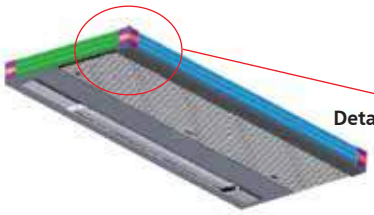



### Optional List

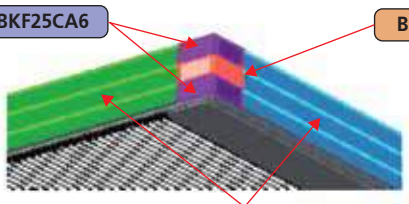
### Spacer Kit Detail:

| Item Name | Required Height (mm) | | Space Kit-Model Name | | | |
|---|---|---|---|---|---|---|
| | | | BKF25A6 | BKF25CA6 | BKF50CA6 | BKF75SA6 |
| | | | Spacers (Nos): 2 + 2 | Comers 4 Nos + Screws 4 Nos | Comers 4 Nos + Screws 4 Nos | Installation Hook: 6 Nos |
| Spacer Assembly | 25 (mm) | App. Model/Qty. | 1 | 1 | X | X |
| | | Item/Images | | | NA | NA |
| | 50 (mm) | App. Model/Qty. | 2 | 2 | 1 | X |
| | | Item/Images | | | | NA |
| | 75 (mm) | App. Model/Qty. | 3 | 3 | 1 | 1 |
| | | Item/Images | | | | |

75mm Spacer



Detail View



BKF75SA6

# Indoor Unit Line-Up

## Slim Ceiling Mounted Duct Type

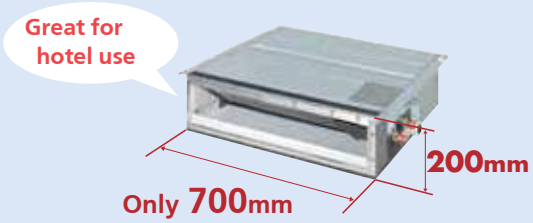
**FXDQ20PD / FXDQ25PD / FXDQ32PD**
**FXDQ40ND / FXDQ50ND / FXDQ63ND**

VRT Smart Control

## Slim design, quietness and static pressure switching

### Suited to use in drop-ceilings

- Only 700mm in width and 23 kg in weight, this model is suitable for installation in limited spaces like drop-ceilings in hotels.



- Control of the airflow rate has been improved from 2-step to 3-step control.

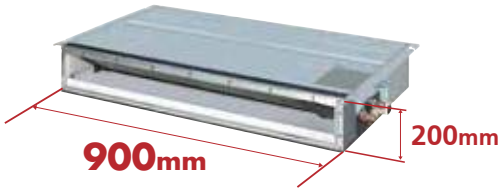
Low operation sound level (dBA)

| FXDQ-PD/ND | 20/25/32 | 40 | 50 | 63 |
|---|---|---|---|---|
| Sound level (HH/H/L) | 33/31/29 | 34/32/30 | 35/33/31 | 36/34/32 |

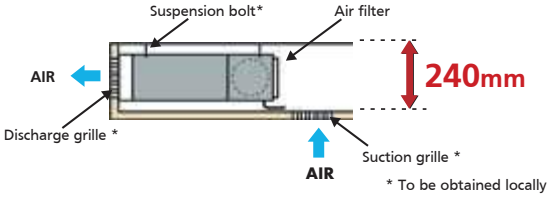
* The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dBA.

* Values are based on the following conditions:
FXDQ-PD: external static pressure of 10 Pa; FXDQ-ND: external static pressure of 15 Pa.

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




* 1,100mm in width for the FXDQ63ND model.

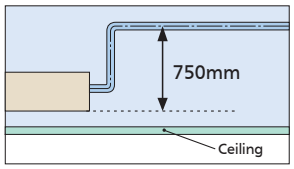



- External static pressure selectable by remote controller switching makes this indoor unit a very comfortable and flexible model.

10 Pa-30 Pa/factory set: 10 Pa for FXDQ-PD models.
15 Pa-44 Pa/factory set: 15 Pa for FXDQ-ND models.

- FXDQ-PD and FXDQ-ND models are available with a drain pump as a standard accessory.

FXDQ-PD/NDVE: with a drain pump (750mm lift) as a standard accessory



# VRV Indoor Units

## High Static Pressure Ceiling Mounted Duct Type

**FXMQ20P / FXMQ25P / FXMQ32P / FXMQ40P**
**FXMQ50P / FXMQ63P / FXMQ80P / FXMQ100P**
**FXMQ125P / FXMQ140P**

VRT Smart Control

## High static pressure allows for flexible duct design

- A DC fan motor increases the external static pressure capacity range to include middle to high static pressures, increasing design flexibility.

  30 Pa-100 Pa for FXMQ20P-32P

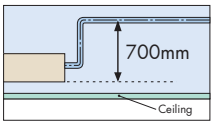
  30 Pa-160 Pa for FXMQ40P

  50 Pa-200 Pa for FXMQ50P-125P

  50 Pa-140 Pa for FXMQ140P

All models are only 300mm in height, an improvement over the 390mm height of conventional models. The weight of the FXMQ40P has been reduced from 44 kg to 28 kg.

Drain pump is equipped as standard accessory with 700mm lift.




Control of the airflow rate has been improved from 2-step to 3-step control.

Low operation sound level (dBA)

| FXMQ-P | 20/25 | 32 | 40 | 50 | 63 | 80/100 | 125 | 140 |
|---|---|---|---|---|---|---|---|---|
| Sound level (HH/H/L) | 33/31/29 | 34/32/30 | 39/37/35 | 41/39/37 | 42/40/38 | 43/41/39 | 44/42/40 | 46/45/43 |

### Energy-efficient

- The adopted DC fan motor is much more efficient than the conventional AC motor, yielding an approximate 20% decrease in energy consumption (FXMQ125P).

### Improved ease of installation

- Airflow rate can be controlled using a remote controller during test operations. With the conventional model, the airflow rate was controlled from the PC board. It is automatically adjusted to the range between approximately ±10% of the rated HH tap airflow for FXMQ20P–125P.

### Improved ease of maintenance

- The drain pan can be detached for easy cleaning. 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.

**FXMQ170N/FXMQ200N**
**FXMQ250N**

### Simplified Static Pressure Control

External static pressure can be easily adjusted using a change-over switch inside the electrical box to meet the resistance in the duct system.

# Indoor Unit Line-Up

## Mid Static Pressure Ceiling Mounted Duct Type

**FXMQ40A / FXMQ50A / FXMQ63A**
**FXMQ80A / FXMQ100A**

## Mid static pressure allows for flexible duct design

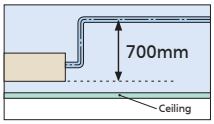
- AC fan motor is installed to suit applications where external static pressure is required at nominal capacity.

  30 Pa-50 Pa for FXMQ40-80ARV16

  30 Pa-60 Pa for FXMQ100ARV16

All models are only 300mm in height, an improvement over the 390mm height of conventional models. The weight of the FXMQ40P has been reduced from 44 kg to 28 kg.

Drain pump is equipped as standard accessory with 700mm lift.




### High airflow rate

Airflow rate is optimised to meet wider spectrum of airflow requirements.

Low operation sound level (dBA)

| FXMQ-A | 40 | 50 | 63 | 80 | 100 |
|---|---|---|---|---|---|
| Sound level (H/L) | 39/37 | 41/39 | 42/40 | 43/41 | 44/42 |

### Improved ease of maintenance

- The drain pan can be detached for easy cleaning. 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.

# VRV Indoor Units

## Ceiling Suspended Type

FXHQ32 / 63 / 100MA

FXHQ125 / 140A

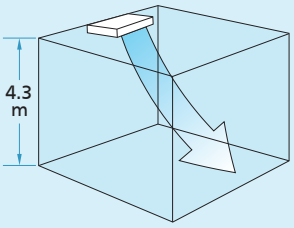
### Slim body with quiet and wide airflow

**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

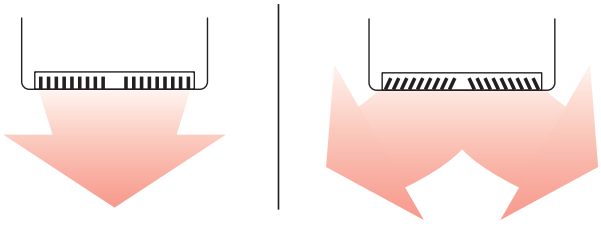



- Switchable fan speed: 3 steps
  - Control of airflow rate has been improved from 2-step to 3-step.

- 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.

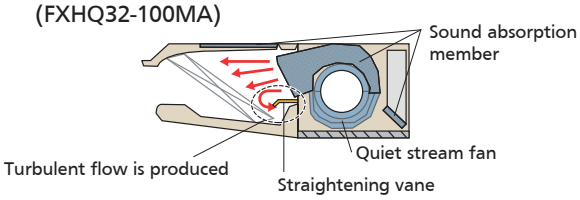
**Comfort**

- 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)




dBA

| Indoor unit | Sound level | | |
|---|---|---|---|
| | H | M | L |
| FXHQ32MA | 36 | — | 31 |
| FXHQ63MA | 39 | — | 34 |
| FXHQ100MA | 45 | — | 37 |
| FXHQ125A | 46 | 41 | 37 |
| FXHQ140A | 48 | 42 | 37 |

# Indoor Unit Line-Up

## Wall Mounted Type

FXAQ20A / FXAQ25A
FXAQ32A / FXAQ40A
FXAQ50A / FXAQ63A
FXAQ71B / FXAQ80A
FXAQ90A

VRT Smart Control

### Stylish flat panel design harmonised with your interior decor

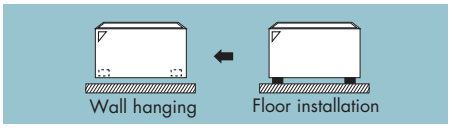
- Stylish flat panel design creates a graceful harmony that enhances any interior space.
- Flat panel can be cleaned with only the single pass of a cloth across their smooth surface.
- Vertical auto-swing realises efficiency of air distribution. The louvre closes automatically when the unit stops.

## Floor Standing Type

**FXLQ32MA / FXLQ50MA**
**FXLQ63MA**

# 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 is equipped as standard accessory.
  *8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m³

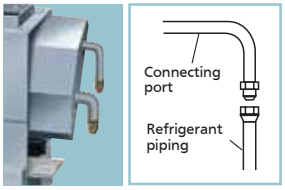



## Concealed Floor Standing Type

**FXNQ32MA / FXNQ50MA**
**FXNQ63MA**

# Designed to be concealed in the perimeter skirting-wall

- The unit is concealed in the skirting-wall of the perimeter, that creates a classy interior design.
- The connecting port faces downwards, greatly facilitating on-site piping work.
- A long-life filter is equipped as a standard accessory.
  * 8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m3




* Applies also to Floor Standing type (FXLQ-MA).

# Indoor Unit Line-Up

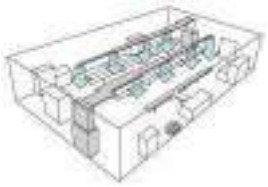
## VRV Indoor Units

### Floor Standing Duct Type

**FXVQ125N / FXVQ200N**
**FXVQ250N / FXVQ400N**
**FXVQ500NY16**

## Large airflow type for large spaces.
## Flexible interior design for each customer.

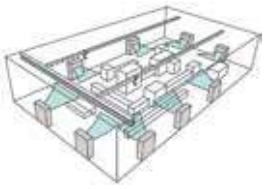
- Large airflow type that fits for spacious areas such as factories and large stores.
- Various installations can be supported from full-scale duct connection airflow to direct airflow that allows for easy installation.
- Full-scale duct connection airflow allows for air conditioning evenly in spacious areas.



### Duct connection airflow type

- Adding the plenum chamber (option) allows for simple operation with direct airflow.

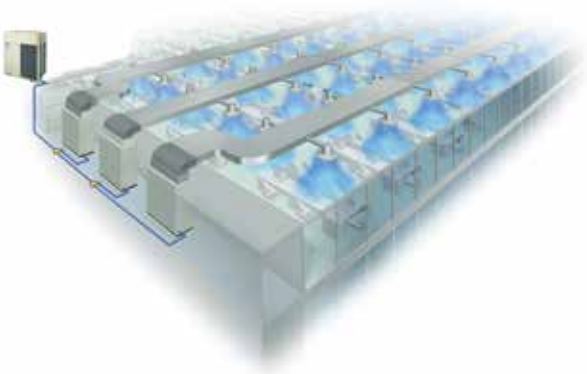
  * Note that the operation sound increases by approximately 5 dBA.



### Direct airflow type

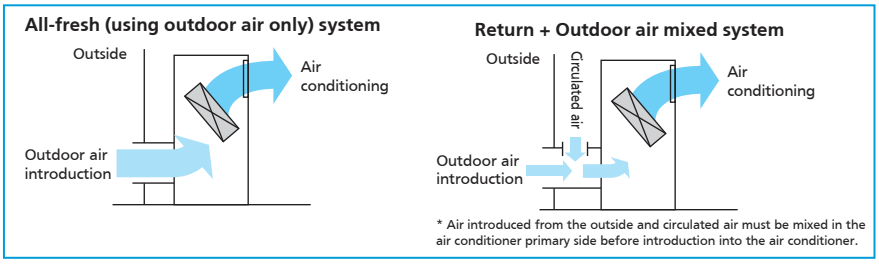
- The high static pressure type driven by the belt drive system allows the usage of air discharge outlets in various shapes as well as long ducts. Highly flexible installation is possible.
- High maintainability design that allows major services and maintenance services to be performed at the front.
- A long-life filter is equipped as a standard accessory.

  *8 hr/day, 26 day/month. For dust concentration of 0.15 mg/m3
- A wide range of optional accessories is available such as high-efficiency filters.



- Outdoor air intake mode is useable as an outdoor-air processing airconditioner.

*When using the unit as an outdoor-air processing unit, there are some restrictions.

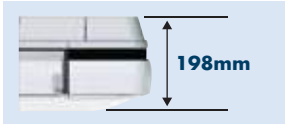


## 4-Way Flow Ceiling Suspended Type

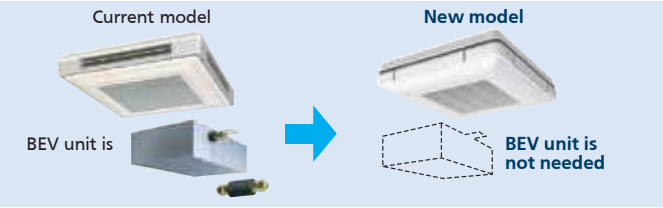
**FXUQ71A / FXUQ100A**

# This slim and stylish indoor unit achieves optimum air distribution and can be installed without a ceiling cavity.

- Unit body and suction panel adopted round shapes and realized a slim appearance design. The unit can be used for various locations such as the ceilings with no cavity and bore ceilings.
- Flaps close automatically when the unit stops, which gives a simple appearance.
- Unified slim height of 198mm for all models that gives the unified impression even when models with different capacities are installed in the same area.

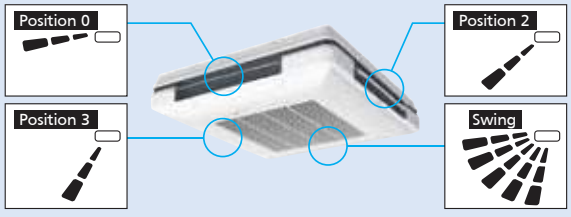


- Built-in electronic expansion valve eliminates the need for a BEV unit, which improves flexibility of installation.

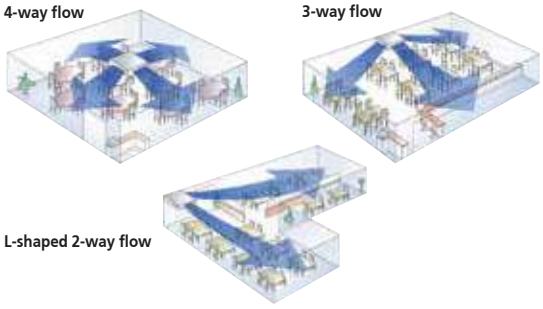



- With adoption of the individual flap control, airflow direction adjustment can be individually set for each air outlet. Five directions of airflow and auto-swing can be selected with wired remote controller BRC1E62, which realizes the optimum air distribution.

### Individual airflow direction example case




- 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 BRC1E62.
- Energy efficiency has been improved, thanks to the adoption of 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 500mm to 600mm.
- Depending on the installation site requirements or room conditions, 2-way, 3-way and 4-way discharge patterns are available.



# Indoor Unit Line-Up

## VRV Indoor Units

### Multi Cube (Spot AC) type for VRV system

**FXPQ25AVM**

New

### Personal air comfort delivered to large spaces

Even in large spaces, Daikin ensures individual air comfort for each person. Our compact Spot Air Conditioner was created to serve individual air conditioning needs in large spaces. Compared to commercial buildings and offices, air conditioning factories and other large spaces used to be extremely difficult. With this Spot Air Conditioner, temperatures can now be individually adjusted for a comfortable work environment to suit each person.

Wind travel distance 30%*1 increase (during direct airflow)

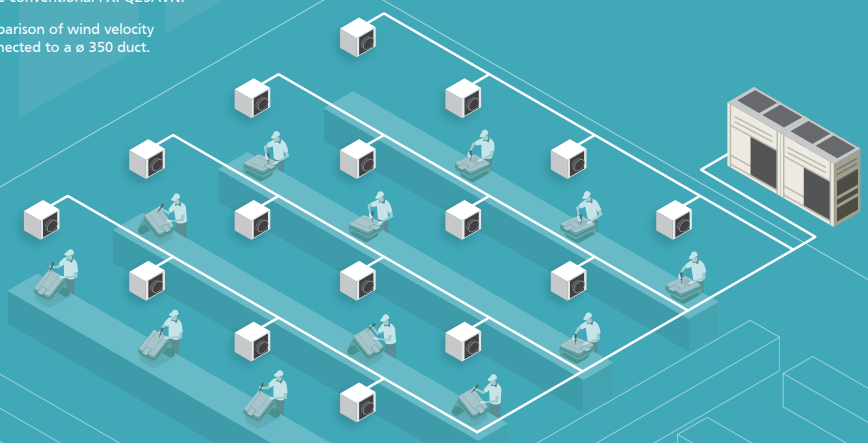
Wind velocity 20%*2 increase in (during duct connection)

*1. This compares the distance in which airflow travels from the air outlet at wind velocity of 3 m/s with the distance that airflow travels for the conventional FXPQ25AVN.

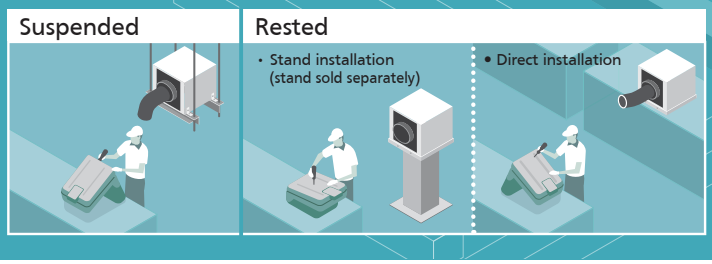
*2. This is a comparison of wind velocity with the connected to a ø 350 duct.

**Delivering greater comfort by adopting a high efficiency DC motor and optimizing the shape of the air discharge grille.**

**Flexible installation corresponds to site conditions. With temperature control available for each unit, air conditioning adjusts to individual preferences for personal air comfort.**



**Different types of installation possible**

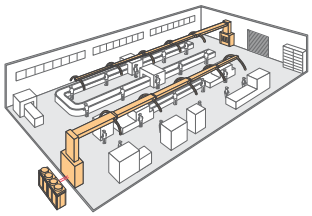


Installation examples at Daikin's Sakai and Rinkai plants

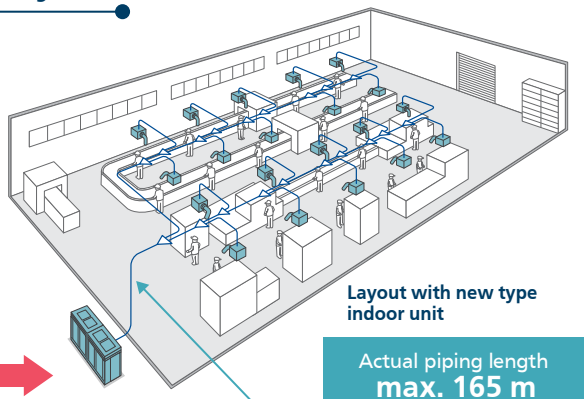
### Versatile installation options enable free layout

Because VRV systems allow use of long refrigerant piping, unit layout is flexible and can be freely designed to fit large spaces. Not only does this make ductwork unnecessary, it simplifies installation and enables easy unit relocation in the future. Installation costs are also greatly reduced.

**Conventional ducted air conditioning system**



**No ducts required!**

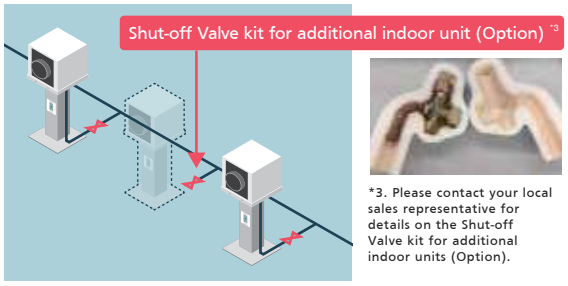


**Layout with new type indoor unit**

Actual piping length
**max. 165 m**
Total piping length
**max. 1,000 m**

## Easy relocation/expansion

Only requirement is connection to preinstalled Shut-off Valve kit for additional indoor units (Option).

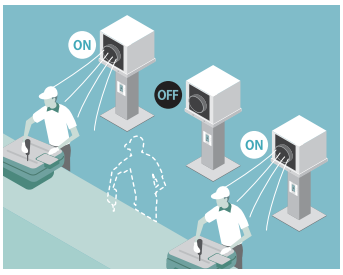



*3. Please contact your local sales representative for details on the Shut-off Valve kit for additional indoor units (Option).

## Adjustable comfort for individual users

Each Spot Air Conditioner can be controlled with a dedicated wired remote controller. Individual users can set the temperature and airflow volume.

Moreover, since each unit can be turned ON and OFF, it is possible to reduce power consumption resulting from unnecessary operation and to eliminate associated costs.



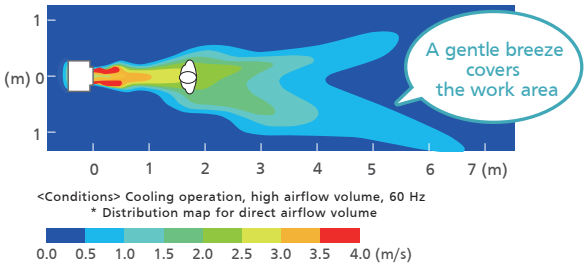

## Delivering comfort with a large volume of air

The large propeller fan provides a gentle, comfortable breeze and greater wind volume.

Additionally, by installing an optional air discharge adaptor and straightening plate, strong airflow can be achieved that extends even further.

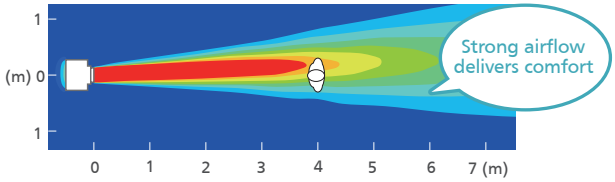
**Comfort for people nearby** | Standard type

■ Wind velocity distribution map (horizontal section)




**Comfort for people far away** | Long-distance type *6

■ Wind velocity distribution map (horizontal section)



*6. Installation of the optional items "air discharge adaptor (KDF87C28)" and "straightening plate for air discharge adaptor (KPW87A28)" is necessary.

## Designed for installation in any environment

### Condensation suppression

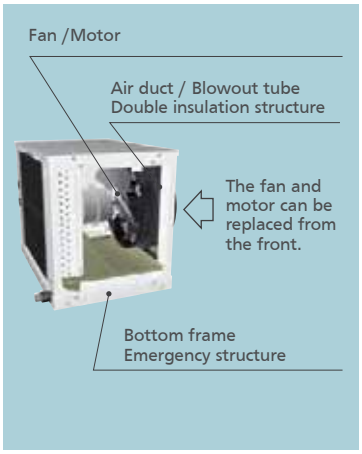
To **minimize condensation**, the air duct and blowout tubes are **double insulated**. This enables use in kitchens and other highly humid environment.

### Leakage failsafe

**An emergency reservoir** is fitted in the underframe beneath the drain pan. This provides reassuring backup against drain pan overflow.

### Simple maintenance

**Easy maintenance design** includes front access for fan motor replacement.



VRV α™

# SPECIFICATIONS

# VRV Indoor Units

## Ceiling Mounted Cassette Round Flow & Round Flow with Sensing (Optional)

| MODEL | | | FXFSQ25ARV16 | FXFSQ32ARV16 | FXFSQ40ARV16 | FXFSQ50ARV16 | FXFSQ63ARV16 | FXFSQ80ARV16 | FXFSQ100ARV16 | FXFSQ125ARV16 | FXFSQ140ARV16 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Power supply | | | 1-phase, 220-240V, 50Hz | | | | | | | | |
| Cooling capacity | | Btu/h | 9,600 | 12,300 | 15,400 | 19,100 | 24,200 | 30,700 | 38,200 | 47,800 | 54,600 |
| | | kW | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 9.0 | 11.2 | 14.0 | 16.0 |
| Heating capacity | | Btu/h | 10,900 | 13,600 | 17,100 | 21,500 | 27,300 | 34,100 | 42,700 | 54,600 | 54,600 |
| | | kW | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | 10.0 | 12.5 | 16.0 | 16.0 |
| Casing | | | Galvanised steel plate | | | | | | | | |
| Airflow rate (H/HM/M/ML/L) | | $m^3$/min | 13/12.5/11.5/11/10 | | 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 |
| | | cfm | 459/441/406/388/353 | | 600/477/441/424/388 | 812/724/671/512/388 | 830/742/706/565/477 | 865/777/724/706/530 | 1,183/1,077/954/830/742 | 1218/1112/1006/901/812 | 1,254/1,148/1,042/936/812 |
| Sound level (H/HM/M/ML/L) | | dBA | 30/29.5/28.5/28/27 | | 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×W×D) | | mm | 256×840×840 | | | | | | 298×840×840 | | |
| Machine weight | | kg | 19 | | | 22 | | | 25 | | 26 |
| Piping connections | Liquid (Flare) | mm | Ø 6.4 | | | | Ø 9.5 | | | | |
| | Gas (Flare) | | Ø 12.7 | | | | Ø 15.9 | | | | |
| | Drain | | VP25 (External Dia, 32/Internal Dia, 25) | | | | | | | | |
| Standard panel (Non sensing) (White) | Model | | BYCQ125EAF6 (Fresh White) | | | | | | | | |
| | Dimensions (HxWxD) | mm | 50x950x950 | | | | | | | | |
| | Weight | kg | 5.5 | | | | | | | | |
| Sensing panel (White) | Model | | BYCQ140EEF6 (Fresh White) | | | | | | | | |
| | Dimensions (HxWxD) | mm | 50x950x950 | | | | | | | | |
| | Weight | kg | 5.5 | | | | | | | | |

**Note: Specifications are based on the following conditions;**

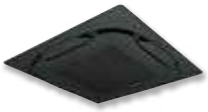
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity 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.

For More information 'Scan Me'

## Decoration Panel (Option)

| | | | ROUND FLOW TYPE |
|---|---|---|---|
| | | | FXFSQ-A |
| Standard panel | MODEL | | BYCQ125EAF6 (Fresh White ) / BYCQ125EAK (Black) |
| | Dimensions (H×W×D) | mm | 50×950×950 |
| | Weight | kg | 5.5 |
| Sensing panel | Model | | BYCQ140EEF6 (Fresh White ) / BYCQ125EEK |
| | Dimensions (H×W×D) | mm | 50×950×950 |
| | Weight | kg | 5.5 |
| Designer panel | Model | | BYCQ125EAPF (Fresh White) |
| | Dimensions (H×W×D) | mm | 97×950×950 |
| | Weight | kg | 6.5 |
| Auto grille panel | Model | | BYCQ125EASF (Fresh White) |
| | Dimensions (H×W×D) | mm | 105×950×950 |
| | Weight | kg | 8 |

**Standard panel**
BYCQ125EAF6 (Fresh White)



**Standard panel**
BYCQ125EAK (Black)

**Designer panel**
BYCQ125EAPF (Fresh White)

**Sensing panel**
BYCQ140EEF6 (Fresh White)

**Sensing panel**
BYCQ125EEK (Black)

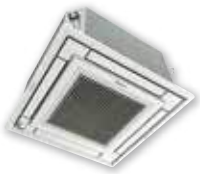
**Auto grille panel*2**
BYCQ125EASF (Fresh White)

**Note: When opting Black panel, wireless remote controller model will be BRC7M634K**

# Specifications

## VRV Indoor Units

### Ceiling Mounted Cassette (Compact Multi-Flow) Type



| MODEL | | | FXZQ20CRV16 | FXZQ25CRV16 | FXZQ32CRV16 | FXZQ40CRV16 | FXZQ50CRV16 |
|---|---|---|---|---|---|---|---|
| Power supply | | | 1 phase, 220-240V, 50Hz | | | | |
| Cooling capacity | | Btu/h | 7,500 | 9,600 | 12,300 | 15,400 | 19,100 |
| | | 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 |
| | | kW | 2.5 | 3.2 | 4 | 5 | 6.3 |
| Casing | | | Galvanised steel plate | | | | |
| Airflow rate (H/M/L) | | $m^3$/min | 8.7/7.5/6.5 | 9.0/8.0/6.5 | 10.0/8.5/7.0 | 11.5/9.5/8 | 14.5/12.5/10.0 |
| | | cfm | 307/265/229 | 318/282/229 | 353/300/247 | 406/335/282 | 512/441/353 |
| Sound level | | dBA | 32.0/29.5/25.5 | 33.0/30.0/25.5 | 33.5/30.0/26.0 | 37.0/32.0/28.0 | 43.0/40.0/33.0 |
| Machine weight | | kg | 15.5 | | 16.5 | | 18.5 |
| Dimensions (HxWxD) | | mm | 260x575x575 | | | | |
| Piping connections | Liquid (Flare) | mm | Ø 6.4 | | | | |
| | Gas (Flare) | | Ø 12.7 | | | | |
| | Drain | | VP20 (Internal Dia 20/External Dia 26) | | | | |
| Decoration Panel (option) | Model | | BYFQ60CBW6 | | | | |
| | Colour | | White (N9.5) | | | | |
| | Dimensions | mm | 46 x 720 x 720 | | | | |
| | Air Filter | | Resin net (with mould resistance) | | | | |
| | Weight | 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°CWB, 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 (Double Flow) Type

| MODEL | | | FXCQ25BVM6 | FXCQ32BVM6 | FXCQ40BVM6 | FXCQ50BVM6 | FXCQ63BVM6 | FXCQ80BVM6 | FXCQ125BVM6 |
|---|---|---|---|---|---|---|---|---|---|
| Power supply | | | 1-phase, 220-240 V/50 Hz | | | | | | |
| Cooling capacity | | Btu/h | 9,600 | 12,300 | 15,400 | 19,100 | 24,200 | 30,700 | 47,800 |
| | | kW | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 9.0 | 14.0 |
| Heating capacity | | Btu/h | 10,900 | 13,600 | 17,100 | 21,500 | 27,300 | 34,100 | 54,600 |
| | | kW | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | 10.0 | 16.0 |
| Casing | | | Galvanised steel plate | | | | | | |
| Airflow rate (HH/M/L) | | $m^3$/min | 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 |
| | | cfm | 406/371/335/300/282 | | 424/388/371/335/300 | 530/494/459/406/371 | 565/530/494/441/406 | 918/847/794/724/653 | 1130/1041/971/883/794 |
| Sound level (H/L) 220 V | | dBA | 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 (HxWxD) | | mm | 305x775x620 | | | 305x990x620 | | 305x1,445x620 | |
| Machine weight | | kg | 19 | | | 22 | 25 | 33 | 38 |
| Piping connections | Liquid (Flare) | mm | ø6.4 | | | | ø9.5 | | |
| | Gas (Flare) | | ø12.7 | | | | ø15.9 | | |
| | Drain | | VP25 (External Dia, 32/Internal Dia, 25) | | | | | | |
| Panel (Option) | Model | | BYBCQ40CF | | | BYBCQ63CF | | BYBCQ125CF | |
| | Colour | | Fresh white (6.5Y 9.5/0.5) | | | | | | |
| | Dimensions(HxWxD) | mm | 55x1,070x700 | | | 55x1,285x700 | | 55x1,740x700 | |
| | Weight | kg | 10 | | | 11 | | 13 | |

# Specifications

## VRV Indoor Units

### Ceiling Mounted Cassette Corner Type

| MODEL | | | FXKQ32ARV16 | FXKQ40ARV16 |
|---|---|---|---|---|
| Power supply | | | 1 phase, 220-240 V, 50 Hz | 1 phase, 220-240 V, 50 Hz |
| ★1 ★3 Cooling capacity | | Btu/h | 12,300 | 15,400 |
| | | kW | 3.6 | 4.5 |
| ★2 ★3 Heating capacity | | Btu/h | 12,300 | 15,400 |
| | | kW | 3.6 | 4.5 |
| Casing / Colour | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H × W × D) | | mm | 145 × 1,210 × 523 | 145 × 1,210 × 523 |
| Fan | Airflow rate (H / HM M / ML / L) | m³/min | 9.7 / 9.3 / 8.9 / 8.7 / 8.5 | 11.1 / 10.3 / 9.5 / 9.0 / 8.6 |
| | | cfm | 342 / 328 / 314 / 307 / 300 | 392 / 364 / 335 / 318 / 304 |
| Piping connections | Liquid pipes | mm | ø6.4 (flare connection) | ø6.4 (flare connection) |
| | Gas pipes | mm | ø12.7 (flare connection) | ø12.7 (flare connection) |
| | Drain pipe | mm | ø26 (hole) | ø26 (hole) |
| Mass | | kg | 20 | 20 |
| ★4 Sound pressure level (H / HM / M / ML / L) | | dBA | 36 / 35 / 34 / 34 / 33 | 39 / 37 / 36 / 35 / 34 |
| Decoration panel (option) | Model | | Fuse | |
| | | | BYKQ63AHW / BYKQ63AHS / BYKQ63AW | |
| | Colour | | White / Silver | |
| | Dimensions: (H × W × D) | mm | 41 x 1390 x 595 | |
| | Air filter | | Resin net (with mould resistance) | |
| | Mass | kg | 6.6 | |

**Note:**

★1. Indoor temp.: 27°CDB, 19°CWB / outdoor temp.: 35°CDB, 24°CWB / Equivalent piping length: 7.5 m, height difference: 0 m.
★2. Indoor temp.: 20°CDB, 15°CWB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length: 7.5 m, height difference: 0 m.
★3. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★4. Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1.0 m downward. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

| Conversion formulae |
|---|
| kcal/h = kW × 860<br>Btu/h = kW × 3,412<br>cfm = m³/min × 35.3<br>l/s = m³/min × 1,000/60 |

# Specifications

## VRV Indoor Units

| MODEL | | | | |
|---|---|---|---|---|
| Power supply | | | 1 phase, 220-240 V, 50 Hz | 1 phase, 220-240 V, 50 Hz |
| ★1 ★3 Cooling capacity | | Btu/h | 19,100 | 24,200 |
| | | kW | 5.6 | 7.1 |
| ★2 ★3 Heating capacity | | Btu/h | 19,100 | 24,200 |
| | | kW | 5.6 | 7.1 |
| Casing / Colour | | | Galvanized steel plate | Galvanized steel plate |
| Dimensions: (H × W × D) | | mm | 145 × 1,210 × 523 | 145 × 1,210 × 523 |
| Fan | Airflow rate (H / HM / M / ML / L) | m³/min | 13.2 / 12.2 / 11.1 / 10.3 / 9.5 | 17.4 / 15.4 / 13.9 / 12.4 / 10.8 |
| | | cfm | 466 / 431 / 392 / 364 / 335 | 614 / 544 / 491 / 438 / 381 |
| Piping connections | Liquid pipes | mm | ϕ6.4 (flare connection) | ϕ9.5 (flare connection) |
| | Gas pipes | mm | ϕ12.7 (flare connection) | ϕ15.9 (flare connection) |
| | Drain pipe | mm | ϕ26 (hole) | ϕ26 (hole) |
| Mass | | kg | 20 | 20 |
| ★4 Sound pressure level (H / HM / M / ML / L) | | dBA | 43 / 41 / 39 / 37 / 36 | 49 / 47 / 45 / 43 / 41 |
| Decoration panel (option) | Model | | BYKQ63AHW / BYKQ63AHS / BYKQ63AW | |
| | Colour | | White / Silver | |
| | Dimensions: (H × W × D) | mm | 41 x 1390 x 595 | |
| | Air filter | | Resin net (with mould resistance) | |
| | Mass | kg | 6.6 | |

**Note:**

★1. Indoor temp.: 27°CDB, 19°CWB / outdoor temp.: 35°CDB, 24°CWB / Equivalent piping length: 7.5 m, height difference: 0 m.
★2. Indoor temp.: 20°CDB, 15°CWB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length: 7.5 m, height difference: 0 m.
★3. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★4. Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1.0 m downward. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

| Conversion formulae |
|---|
| kcal/h = kW × 860 |
| Btu/h = kW × 3,412 |
| cfm = m³/min × 35.3 |
| l/s = m³/min × 1,000/60 |

# Specifications

## VRV Indoor Units

### Slim Ceiling Mounted Duct Type (700 mm width type)

| MODEL | with drain pump | | FXDQ20PDV36 | FXDQ25PDV36 | FXDQ32PDV36 |
|---|---|---|---|---|---|
| Power supply | | | 1-phase, 220-240 V/220 V, 50 Hz | | |
| Cooling capacity | | Btu/h | 7,500 | 9,600 | 12,300 |
| | | kW | 2.2 | 2.8 | 3.6 |
| Heating capacity | | Btu/h | 8,500 | 10,900 | 13,600 |
| | | kW | 2.5 | 3.2 | 4.0 |
| Casing | | | Galvanised steel plate | | |
| Airflow rate (HH/H/L) | | $m^3$/min | 8.0/7.2/6.4 | 8.0/7.2/6.4 | 8.0/7.2/6.4 |
| | | cfm | 282/254/226 | 282/254/226 | 282/254/226 |
| External static pressure | | Pa | 30-10*2 | | |
| Sound level (HH/H/L) *1*3 | | dBA | 33/31/29 | 33/31/29 | 33/31/29 |
| Dimensions (HxWxD) | | mm | 200×700×620 | 200×700×620 | 200×700×620 |
| Machine weight | | kg | 23.0 | 23.0 | 23.0 |
| Piping connections | Liquid (Flare) | mm | ø 6.4 | ø 6.4 | ø 6.4 |
| | Gas (Flare) | | ø 12.7 | ø 12.7 | ø 12.7 |
| | Drain | | VP20 (External Dia, 26/Internal Dia, 20) | | |

# Specifications

## VRV Indoor Units

### Slim Ceiling Mounted Duct Type (900/1,100 mm width type)

| MODEL | with drain pump | | FXDQ40NDV36 | FXDQ50NDV36 | FXDQ63NDV36 |
|---|---|---|---|---|---|
| Power supply | | | 1-phase, 220-240 V/220 V, 50 Hz | | |
| Cooling capacity | | Btu/h | 15,400 | 19,100 | 24,200 |
| | | kW | 4.5 | 5.6 | 7.1 |
| Heating capacity | | Btu/h | 17,100 | 21,500 | 27,300 |
| | | kW | 5.0 | 6.3 | 8.0 |
| Casing | | | Galvanised steel plate | | |
| Airflow rate (HH/H/L) | | $m^3$/min | 10.5/9.5/8.5 | 12.5/11.0/10.0 | 16.5/14.5/13.0 |
| | | cfm | 371/335/300 | 441/388/353 | 583/512/459 |
| External static pressure | | Pa | 44-15*2 | | |
| Sound level (HH/H/L) *1*3 | | dBA | 34/32/30 | 35/33/31 | 36/34/32 |
| Dimensions (HxWxD) | | mm | 200×900×620 | 200×900×620 | 200×1,100×620 |
| Machine weight | | kg | 27.0 | 28.0 | 31.0 |
| Piping connections | Liquid (Flare) | mm | ø 6.4 | ø 6.4 | Ø 9.5 |
| | Gas (Flare) | | ø 12.7 | ø 12.7 | Ø 15.9 |
| | 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 based on the total capacity index.
- 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 the following conditions: FXDQ-P: external static pressure of 10 Pa; FXDQ-N: 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-P models and 15 Pa for FXDQ-N 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 dBA.

### Mid Static Pressure Ceiling Mounted Duct Type

| MODEL | with drain pump | | FXMQ40ARV16 | FXMQ50ARV16 | FXMQ63ARV16 | FXMQ80ARV16 | FXMQ100ARV16 |
|---|---|---|---|---|---|---|---|
| Power supply | | | | 1-phase, 220-240 V, 50 Hz | | | |
| Cooling capacity | | Btu/h | 15,400 | 19,100 | 24,200 | 30,700 | 38,200 |
| | | kW | 4.5 | 5.6 | 7.1 | 9.0 | 11.2 |
| Heating capacity | | Btu/h | 17,100 | 21,500 | 27,300 | 34,100 | 42,700 |
| | | kW | 5.0 | 6.3 | 8.0 | 10.0 | 12.5 |
| Casing | | | | Galvanized Steel Plate | | | |
| Airflow rate (HH/H/L) | | $m^3$/min | 15/12 | 19/16 | 24/20 | 30/25 | 34/29 |
| | | cfm | 530/425 | 671/565 | 848/706 | 1060/883 | 1200/1024 |
| External static pressure | | Pa | 30-50 | | | | 30-60 |
| Sound level (H/L) | | dBA | 39/37 | 41/39 | 42/40 | 43/41 | 44/42 |
| Dimensions (HxWxD) | | mm | 300x700x700 | | 300x1000x700 | | |
| Machine weight | | kg | 27 | 28 | 35 | | 36 |
| Piping connections | Liquid (Flare) | mm | 6.4 (Flare Connection) | | 9.5 (Flare Connection) | | |
| | Gas (Flare) | | 12.7 (Flare Connection) | | 15.9 (Flare Connection) | | |
| | 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.
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.

# Specifications

## VRV Indoor Units

### Ceiling Mounted Duct Type

| MODEL | | | FXMQ20PBV36 | FXMQ25PBV36 | FXMQ32PBV36 | FXMQ40PBV36 | FXMQ50PBV36 |
|---|---|---|---|---|---|---|---|
| Power supply | | | 1-phase, 220-240 V/220 V, 50 Hz | | | | |
| Cooling capacity | | Btu/h | 7,500 | 9,600 | 12,300 | 15,400 | 19,100 |
| | | 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 |
| | | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 |
| Casing | | | Galvanised steel plate | | | | |
| Airflow rate (HH/H/L) | | $m^3$/min | 9/7.5/6.5 | | 9.5/8/7 | 16/13/11 | 18/16.5/15 |
| | | cfm | 318/265/230 | | 335/282/247 | 565/459/388 | 635/582/530 |
| External static pressure | | Pa | 30-100 (50) *2 | | | 30-160 (100) *2 | 50-200 (100) *2 |
| Sound level (HH/H/L) | | dBA | 33/31/29 | | 34/32/30 | 39/37/35 | 41/39/37 |
| Dimensions (HxWxD) | | mm | 300X700X700 | | | 300X700X700 | 300X1,000X700 |
| Machine weight | | kg | 27 | | | 27 | 35 |
| Piping connections | Liquid (Flare) | mm | ø 6.4 | | | | |
| | Gas (Flare) | | ø 12.7 | | | | |
| | Drain | | VP25 (External Dia, 32/Internal Dia, 25) | | | | |

| MODEL | | | FXMQ63PBV36 | FXMQ80PBV36 | FXMQ100PBV36 | FXMQ125PBV36 | FXMQ140PBV36 |
|---|---|---|---|---|---|---|---|
| Power supply | | | 1-phase, 220-240 V/220 V, 50 Hz | | | | |
| Cooling capacity | | Btu/h | 24,200 | 30,700 | 38,200 | 47,800 | 54,600 |
| | | 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 |
| | | kW | 8.0 | 10.0 | 12.5 | 16.0 | 18.0 |
| Casing | | | Galvanised steel plate | | | | |
| Airflow rate (HH/H/L) | | $m^3$/min | 19.5/17.5/16 | 25/22.5/20 | 32/27/23 | 39/33/28 | 46/39/32 |
| | | cfm | 688/618/565 | 883/794/706 | 1,130/953/812 | 1,377/1,165/988 | 1,624/1,377/1,130 |
| External static pressure | | Pa | 50-200 (100) *2 | | | 50-200 (100) *2 | 50-140 (100) *2 |
| Sound level (HH/H/L) | | dBA | 42/40/38 | 43/41/39 | 43/41/39 | 44/42/40 | 46/45/43 |
| Dimensions (HxWxD) | | mm | 300x1,000x700 | | 300x1,400x700 | | |
| Machine weight | | kg | 35 | | 45 | | 46 |
| Piping connections | Liquid (Flare) | mm | 9.5 | | | | |
| | Gas (Flare) | | 15.9 | | | | |
| | Drain | | VP25 (External Dia, 32/Internal Dia, 25) | | | | |

**Note: Specifications are based on the following condi3tions**

- 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.
- 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 (FXMQ20-32P), thirteen (FXMQ40P), fourteen (FXMQ50-125P) or ten (FXMQ140P) levels of control. These values indicate the lowest and highest possible static pressures. The standard static pressure is 50 Pa for FXMQ20-32P and 100 Pa for FXMQ40-140P

# Specifications

## VRV Indoor Units

### Ceiling Mounted Duct Type

| MODEL | | | FXMQ170NVE6 | FXMQ200NVE6 | FXMQ250NVE6 |
|---|---|---|---|---|---|
| Power supply | | | 1-phase, 220, 240 V/220 V, 50 Hz | | |
| Cooling capacity | | Btu/h | 65,800 | 76,400 | 95,500 |
| | | kW | 19.3 | 22.4 | 28 |
| Heating capacity | | Btu/h | 71,600 | 83,300 | 1,07,500 |
| | | kW | 21 | 25 | 31.5 |
| Casing | | | Galvanised steel plate | | |
| Airflow rate (H/L) | | $m^3$/min | 58/50 | 68/58 | 80/73 |
| | | cfm | 2,047/1,765 | 2400/2,047 | 2,825/2,578 |
| External static pressure | | Pa | 100-140 *2 | 100-200 *2 | 190-270 *2 |
| Sound level (H/L) 220V | | dBA | 45/42 | 47/45 | 49/47 |
| Dimensions (HxWxD) | | mm | 440x1,190x1,090 | | 440x1,490x1,090 |
| Machine weight | | kg | 110 | | 130 |
| Piping connections | Liquid (Flare) | mm | ø 9.5 | | |
| | Gas (Flare) | | ø 19.1 | | ø 22.2 |
| | Drain | | External Dia 32 | | |

### Ceiling Suspended Type

| MODEL | | | FXHQ32MAVE | FXHQ63MAVE | FXHQ100MAVE | FXHQ125BVM6 | FXHQ140BVM6 |
|---|---|---|---|---|---|---|---|
| Power supply | | | 1-phase, 220-240 V/220 V, 50/60 Hz | | | 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 |
| | | kW | 3.6 | 7.1 | 11.2 | 14.1 | 15.5 |
| Heating capacity | | Btu/h | 13,600 | 27,300 | 42,700 | 54,600 | 58,000 |
| | | kW | 4.0 | 8.0 | 12.5 | 16.0 | 17.0 |
| Airflow rate (H/M/L) | | m3/min | 12/-/10 | 17.5/-/14 | 25/-/19.5 | 34/26/20 | 36/27/20 |
| | | cfm | 424/-/353 | 618/-/494 | 883/-/688 | 1,200/918/706 | 1,271/953/706 |
| Sound level (H/M/L) | | dBA | 36/-/31 | 39/-/34 | 45/-/37 | 46/41/37 | 48/42/37 |
| Dimensions (HxWxD) | | mm | 195x960x680 | 195x1,160x680 | 195x1,400x680 | 235x1,590x690 | |
| Machine weight | | kg | 24 | 28 | 33 | 41 | |
| Piping connections | Liquid (Flare) | mm | ø 6.4 | ø 9.5 | | | |
| | Gas (Flange) | | ø12.7 | ø15.9 | | | |
| | 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 based on the total capacity index.
- Sound level: (FXMQ-MA) Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
  (FXHQ-MA) 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.

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

*2: External static pressure is changeable to change over the connectors inside electrical box, this pressure means "Standard-High static pressure".

# Specifications

## VRV Indoor Units

### 4-way Flow Ceiling Suspended Type

| MODEL | | | FXUQ71AVEB | FXUQ100AVEB |
|---|---|---|---|---|
| Power supply | | | 1-phase, 220-240 V/220-230V, 50 Hz | |
| Cooling capacity | | Btu/h | 27,300 | 38,200 |
| | | kW | 8.0 | 11.2 |
| Heating capacity | | Btu/h | 30,700 | 42,700 |
| | | kW | 9.0 | 12.5 |
| Casing | | | Fresh white | |
| Airflow rate (H/L) | | $m^3$/min | 22.5/19.5/16 | 31/26/21 |
| | | cfm | 794/688/565 | 1,094/918/741 |
| Sound level (H/M//L) | | dBA | 40/38/36 | 47/44/40 |
| Dimensions (HxWxD) | | mm | 198×950×950 | |
| Machine weight | | kg | 26 | 27 |
| Piping connections | Liquid (Flare) | mm | Ø9.5 | |
| | Gas (Flare) | | Ø15.9 | |
| | Drain | | VP20 (External Dia, 26/Internal Dia, 20) | |

- 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.
- 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.

### Wall Mounted Type



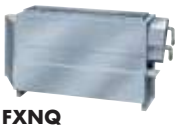
| Model Name | | | FXAQ20ARVE6 | FXAQ25ARVE6 | FXAQ32ARVE6 | FXAQ40ARVE6 | FXAQ50ARVE6 | FXAQ63ARVE6 | FXAQ71BRV16 | FXAQ80ARV16 | FXAQ90ARV16 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Power supply | | | 1-phase, 220 V/220 V, 50 Hz | | | | | | 1φ, 220-240V, 50/60 Hz | | |
| Cooling capacity | | Btu/h | 7,500 | 9,600 | 12,300 | 15,400 | 19,100 | 24,200 | 27297 | 30,708 | 34,121 |
| | | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 8 | 9 | 10 |
| Heating capacity | | Btu/h | 8,500 | 10,900 | 13,600 | 17,100 | 21,500 | 27,300 | 30,027 | 34,210 | 37,533 |
| | | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | 8.8 | 10 | 11 |
| Casing Color | | | White (N9.5) | | | | | | | | |
| Dimensions (H*W*D) | | mm | 298×929×258 | | | | | | 325 X1060 X 278 | 325 X 1220 X 278 | |
| Airflow rate (H/HM/M/ML/L) | | $m^3$/min | 7.5/4.5 | 9/5 | 11/5.5 | 13/9 | 15/12 | 19/14 | 22/20.4/ 19.8/19.1/ 18 | 23.8/22.5/ 21.3/20.6/ 19.6 | 28.9/27.4/ 25.7/23.8/ 22 |
| | | cfm | 265/159 | 318/177 | 388/194 | 459/318 | 530/424 | 671/494 | 778/720/ 698/676/ 639 | 839/796/ 752/726/ 692 | 1021/969/ 909/839/ 778 |
| Sound level (H/HM/M/ML/L) | | db(A) | 35/31 | 36/31 | 38/31 | 39/34 | 42/37 | 47/41 | 51/49/ 47/46/44 | 51/49/48/ 47/46 | 55/53/52/ 50/49 |
| Machine weight | | kg | 13.0 | | | | | | 17 | 20 | |
| Piping connections | Liquid | mm | Ø 6.4 | | | | | Ø 9.5 | | | |
| | Gas | | Ø 12.7 | | | | | Ø 15.9 | | | |
| | Drain | | VP13 (External Dia, 18/Internal Dia, 13) | | | | | | | | |

# Specifications

## VRV Indoor Units

### Floor Standing Type/Concealed Floor Standing Type

FXLQ



FXNQ

| MODEL | | | FXLQ32MAVE8 | FXLQ50MAVE8 | FXLQ63MAVE8 |
|---|---|---|---|---|---|
| | | | FXNQ32MAVE8 | FXNQ50MAVE8 | FXNQ63MAVE8 |
| Power supply | | | 1-phase, 220-240 V/220 V, 50 Hz | | |
| Cooling capacity | | Btu/h | 12,300 | 19,100 | 24,200 |
| | | kW | 3.6 | 5.6 | 7.1 |
| Heating capacity | | Btu/h | 13,600 | 21,500 | 27,300 |
| | | kW | 4.0 | 6.3 | 8.0 |
| Casing | | | FXLQ: Ivory white (5Y7.5/1)/FXNQ: Galvanised steel plate | | |
| Airflow rate (H/L) | | $m^3$/min | 8/6 | 14/11 | 16/12 |
| | | cfm | 282/212 | 494/388 | 565/424 |
| Sound level (H/L) 220V | | dBA | 35/32 | 39/34 | 40/35 |
| Dimensions (HxWxD) | FXLQ | mm | 600x1,140x222 | 600x1,420x222 | 600x1,420x222 |
| | FXNQ | | 610x1,070x220 | 610x1,350x220 | 610x1,350x220 |
| Machine weight | FXLQ | kg | 30.0 | 36.0 | 36.0 |
| | FXNQ | | 23.0 | 27.0 | 27.0 |
| Piping connections | Liquid (Flare) | mm | ø 6.4 | ø 6.4 | ø 9.5 |
| | Gas (Flare) | | ø 12.7 | ø 12.7 | ø 15.9 |
| | Drain | | 21O.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.

**Sound level: (FXAQ-P)** Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.
**(FXLQ-MA, FXNQ-MA)** 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.

### Floor Standing Duct Type

| MODEL | | | FXVQ125NY1R | FXVQ200NY1R | FXVQ250NY1R | FXVQ400NY1R | FXVQ500NY16R |
|---|---|---|---|---|---|---|---|
| Power supply | | | 3-phase 4-wire system, 380 -415 V, 50 Hz | | | | |
| Cooling capacity | | Btu/h | 47,800 | 76,400 | 95,500 | 1,54,000 | 1,91,000 |
| | | kW | 14.0 | 22.4 | 28.0 | 45.0 | 56.0 |
| Heating capacity | | Btu/h | 54,600 | 85,300 | 1,07,500 | 1,71,000 | 2,15,000 |
| | | kW | 16.0 | 25.0 | 31.5 | 50.0 | 63.0 |
| Casing colour | | | Ivory white (5Y7.5/1) | | | | |
| Dimensions (HxWxD) | | mm | 1670x750x510 | 1670x950x510 | 1670x1170x510 | 1900x1170x720 | 1900x1470x720 |
| Machine weight | | kg | 118 | 144 | 169 | 236 | 306 |
| Airflow rate | | $m^3$/min | 43 | 69 | 86 | 134 | 172 |
| | | cfm | 1,518 | 2,436 | 3,036 | 4,730 | 6,072 |
| External static Pressure*2 | | Pa | 152 | 217 | 281 | 420 | 390 |
| Drive system | | | Belt drive system | | | | |
| Air Filter | Type | | Long-life filter (anti-mould resin net) | | | | |
| Sound level *1 | | dBA | 52 | 56 | 60 | 65 | 66 |
| Piping connections | Liquid (Flare) | mm | 9.5 (Brazing) | | | 12.7 (Brazing) | 15.9 (Brazing) |
| | Gas (Flare) | | 15.9 (Brazing) | 19.1 (Brazing) | 22.2 (Brazing) | 28.6 (Brazing) | |
| | Drain | | Rp1 (PS 1B internal thread) | | | | |

**Note: Specifications are based on the following conditions:**

- Cooling: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB.
- 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.

*1: Sound level : measured when the air discharge outlet duct (2 m) is attached (anechoic chamber conversion value).
It increases by approximately 5 dBA when the plenum chamber is installed to deliver direct airflow.
*2: The value is the external static pressure with standard pulley.

# Specifications

## VRV Indoor Units

### Multi Cube (Spot AC) type)

| MODEL | | | FXPQ25AVM |
|---|---|---|---|
| Power Supply | | | 1 Phase, 50Hz, 220-240 V |
| Capacity (watt) | Cooling | | 2800 |
| | Heating | | 3200 |
| Dimension | (HXWXD) mm | | 455X555X470 |
| Casing | | | Galvanised Steel plate |
| Fan | Type | | Propeller Fan |
| | Airflow Rate (H/L) | CMH | 13.5 / 11.0 |
| | | CFM | 477 / 393 |
| | External Static Pressure | PA | 5 |
| | Drive | | Direct Drive |
| Sound Level | | dBA | 51 |
| Machine Weight | | Kg | 30 |
| Piping Connections | Liquid Pipe | mm | 6.4mm dia (Flare Connection) |
| | Gas Pipe | mm | 12.7mm dia (Flare Connection) |
| | Drain Pipe | mm | (External dia 27.2mm, internal dia 21.6mm) |
| Refrigerant Control | | | Electronic Expansion Valve |
| Air Filter | | | Long Life Filter (Resin Net) |

# Specifications

## Outdoor Units

### VRV α™ (Cooling Only)

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| **MODEL** | | | **RXQ6BRY16** | **RXQ8BRY16** | **RXQ10BRY16** | **RXQ12BRY16** | **RXQ14BRY16** | **RXQ16BRY16** |
| **Combination units** | | | — | — | — | — | — | — |
| Power supply | | | 3 PHASE, 50Hz , 380-415 V | | | | | |
| Cooling capacity | | Btu/h | 54600 | 76400 | 95500 | 114000 | 136000 | 154000 |
| | | kW | 16 | 22.4 | 28 | 33.5 | 40 | 45 |
| ISEER | | w/w | 10.90 | 9.66 | 11.44 | 10.81 | 8.67 | 8.47 |
| Capacity Control | | % | 11-100 | 11-100 | 13-100 | 12-100 | 11-100 | 9-100 |
| Compressor | Type | | Hermetically Sealed Scroll Type | | | | | |
| | No. of compressor | | 1 | | | | | |
| Airflow rate | | $m^3$/min | 158 | 158 | 174 | 185 | 237 | 266 |
| Dimensions (HxWxD) | | mm | 1660 x 930 x 765 | | | | 1660 x 1240 x 765 | |
| Machine weight | | kg | 195 | 195 | 202 | 202 | 240 | 262 |
| Sound level | | dBA | 56 | 56 | 59 | 59 | 61 | 63 |
| Operation range | Cooling | °CDB | 10 ~ 52 | | | | | |
| Refrigerant | Type | | R410A | | | | | |
| | Charge | kg | 7.1 | 7.2 | 7.4 | 7.5 | 9.6 | 10.0 |
| Piping connections | Liquid | mm | ø 9.5 | | | ø 12.7 | | |
| | Gas | mm | ø 19.1 | | ø 22.2 | ø 28.6 | | |

**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
- 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.
- (ES) for anticorrosion treated outdoor unit.

# Specifications

## VRV Indoor Units

### VRVα™ (Cooling Only)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **RXQ18BRY16** | **RXQ20BRY16** | **RXQ22BRY16** | **RXQ24BRY16** | **RXQ26BRY16** | **RXQ28BRY16** | **RXQ30BRY16** | **RXQ32BRY16** |
| — | — | — | — | — | **RXQ14BRY16** | **RXQ12BRY16** | **RXQ14BRY16** |
| | | | | | **RXQ14BRY16** | **RXQ18BRY16** | **RXQ18BRY16** |
| | | | | | — | — | — |
| 3 PHASE, 50Hz , 380-415 V | | | | | | | |
| 171000 | 191000 | 210000 | 229000 | 249000 | 273000 | 285000 | 307000 |
| 50 | 56 | 61.5 | 67 | 73 | 80.0 | 83.5 | 90 |
| 8.56 | 8.38 | 9.09 | 8.88 | 8.42 | 8.67 | 9.69 | 8.57 |
| 8-100 | 8-100 | 8-100 | 8-100 | 8-100 | 5 - 100 | 5 - 100 | 5 - 100 |
| Hermetically Sealed Scroll Type | | | | | | | |
| 1 | | | | | 1+1 | | |
| 266 | 306 | 430 | 430 | 411 | 237+237 | 185+266 | 237+266 |
| 1660 x 1240 x 765 | | 1660 x 1750 x 765 | | | (1660 x 1240 x 765) +(1660 x 1240 x 765) | (1660 x 930 x 765)+(1660 x 1240 x 765) | (1660 x 1240 x 765)+(1660 x 1240 x 765) |
| 262 | 285 | 324 | 324 | 350 | 240+240 | 202+262 | 240+262 |
| 64 | 66 | 67 | 68 | 68 | 65 | 65 | 66 |
| 10 ~ 52 | | | | | | | |
| R410A | | | | | | | |
| 10.1 | 11.7 | 11.7 | 11.7 | 11.7 | 9.6+9.6 | 7.5+10.1 | 9.6+10.1 |
| ø 15.9 | | | | ø 19.5 | ø 19.1 | | |
| ø 28.6 | | | ø 34.9 | | ø 34.9 | | |

**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.
- 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.
- (ES) for anticorrosion treated outdoor unit.

# Specifications

## Outdoor Units

### VRV α™ (Cooling Only)

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| **MODEL** | | | **RXQ34BRY16** | **RXQ36BRY16** | **RXQ38BRY16** | **RXQ40BRY16** | **RXQ42BRY16** | **RXQ44BRY16** |
| **Combination units** | | | **RXQ16BRY16** | **RXQ18BRY16** | **RXQ14BRY16** | **RXQ14BRY16** | **RXQ18BRY16** | **RXQ18BRY16** |
| | | | **RXQ18BRY16** | **RXQ18BRY16** | **RXQ24BRY16** | **RXQ26BRY16** | **RXQ24BRY16** | **RXQ26BRY16** |
| | | | — | — | — | — | — | — |
| Power supply | | | 3 PHASE, 50Hz , 380-415 V | | | | | |
| Cooling capacity | | Btu/h | 324000 | 341000 | 365000 | 386000 | 399000 | 420000 |
| | | kW | 95 | 100 | 107 | 113 | 117 | 123 |
| ISEER | | w/w | 8.50 | 8.34 | 8.77 | 8.45 | 8.73 | 8.63 |
| Capacity Control | | % | 4 - 100 | 4 - 100 | 4 - 100 | 4 - 100 | 4 - 100 | 4 - 100 |
| Compressor | Type | | Hermetically Sealed Scroll Type | | | | | |
| | No. of compressor | | 1+1 | | | | | |
| Airflow rate | | $m^3$/min | 266+266 | 266+266 | 237+430 | 237+411 | 266+430 | 266+411 |
| Dimensions (HxWxD) | | mm | (1660 x 1240 x 765)+ (1660 x 1240 x 765) | | (1660 x 1240 x 765)+(1660 x 1750 x 765) | | | |
| Machine weight | | kg | 262+262 | 262+262 | 240+324 | 240+350 | 262+324 | 262+350 |
| Sound level | | dBA | 67 | 68 | 69 | 69 | 70 | 70 |
| Operation range | Cooling | °CDB | 10 ~ 52 | | | | | |
| Refrigerant | Type | | R410A | | | | | |
| | Charge | kg | 10+10.1 | 10.1+10.1 | 9.6+11.7 | 9.6+11.7 | 10.1+11.7 | 10.1+11.7 |
| Piping connections | Liquid | mm | ø 19.1 | | | | | |
| | Gas | mm | ø 41.3 | | | | | |

**Note: Specifications are based on the following conditions:**

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5m, Level difference: 0m.
- Sound level: Anechoic chamber conversion value, measured at a point 1m in front of the unit at a height of 1.5m.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- (ES) for anticorrosion treated outdoor unit.

# Specifications

## Outdoor Units

### VRV α™ (Cooling Only)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| **RXQ46BRY16** | **RXQ48BRY16** | **RXQ50BRY16** | **RXQ52BRY16** | **RXQ54BRY16** | **RXQ56BRY16** | **RXQ58BRY16** | **RXQ60BRY16** |
| **RXQ22BRY16** | **RXQ24BRY16** | **RXQ24BRY16** | **RXQ26BRY16** | **RXQ18BRY16** | **RXQ12BRY16** | **RXQ14BRY16** | **RXYQ18BRY16** |
| **RXQ24BRY16** | **RXQ24BRY16** | **RXQ26BRY16** | **RXQ26BRY16** | **RXQ18BRY16** | **RXQ18BRY16** | **RXQ18BRY16** | **RXQ18BRY16** |
| — | — | — | — | **RXQ18BRY16** | **RXQ26BRY16** | **RXQ26BRY16** | **RXQ24BRY16** |
| | | 3 PHASE, 50Hz , 380-415 V | | | | | |
| 440000 | 457000 | 478000 | 498000 | 512000 | 532000 | 556000 | 570000 |
| 129 | 134 | 140 | 146 | 150 | 156 | 163 | 167 |
| 8.39 | 8.71 | 8.63 | 8.41 | 8.45 | 9.27 | 8.55 | 8.38 |
| 4 - 100 | 4 - 100 | 4 - 100 | 4 - 100 | 3 - 100 | 3 - 100 | 3 - 100 | 2 - 100 |
| Hermetically Sealed Scroll Type | | | | | | | |
| 1+1 | | | | 1+1+1 | | | |
| 430+430 | 430+430 | 430+411 | 411+411 | 266+266+266 | 185+266+411 | 237+266+411 | 266+266+430 |
| (1660 x 1750 x 765)+ (1660 x 1750 x 765) | (1660 x 1750 x765)+(1660 x1750 x 765) | | | (1660 x 1240 x 765)+(1660 x 1240 x 765)+ (1660 x 1240 x 765 | (1660 x 930 x 765)+ (1660 x 1240 x 765)+ (1660 x 1750 x 765) | | (1660 x 1240 x 765)+(1660 x1240x 765+(1,660x 1,750 x765) |
| 324+324 | 324+324 | 324+350 | 350+350 | 262+262+262 | 202+262+350 | 240+262+350 | 262+262+324 |
| 71 | 72 | 72 | 72 | 69 | 70 | 71 | 71 |
| 10 ~ 52 | | | | | | | |
| R410A | | | | | | | |
| 11.7+11.7 | 11.7+11.7 | 11.7+11.7 | 11.7+11.7 | 10.1+10.1+10.1 | 7.5+10.1+11.7 | 9.6+10.1+11.7 | 10.1+10.1+11.7 |
| ø 19.1 | | | | | | | |
| ø 41.3 | | | | | | | |

**Note: Specifications are based on the following conditions:**

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5m, Level difference: 0m.
- Sound level: Anechoic chamber conversion value, measured at a point 1m in front of the unit at a height of 1.5m.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- (ES) for anticorrosion treated outdoor unit.

# Specifications

## Outdoor Units

### VRV α™ (Cooling Only)

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **MODEL** | | | **RXQ62BRY16** | **RXQ64BRY16** | **RXQ66BRY16** | **RXQ68BRY16** | **RXQ70BRY16** | **RXQ72BRY16** |
| **Combination units** | | | **RXQ18BRY16** | **RXQ12BRY16** | **RXQ18BRY16** | **RXQ18BRY16** | **RXQ18BRY16** | **RXQ24BRY16** |
| | | | **RXQ18BRY16** | **RXQ26BRY16** | **RXQ24BRY16** | **RXQ24BRY16** | **RXQ26BRY16** | **RXQ24BRY16** |
| | | | **RXQ26BRY16** | **RXQ26BRY16** | **RXQ24BRY16** | **RXQ26BRY16** | **RXQ26BRY16** | **RXQ24BRY16** |
| Power supply | | | 3 PHASE, 50Hz , 380-415 V | | | | | |
| Cooling capacity | | Btu/h | 590000 | 611000 | 628000 | 648000 | 669000 | 686000 |
| | | kW | 173 | 179 | 184 | 190 | 196 | 201 |
| ISEER | | w/w | 8.61 | 9.22 | 8.36 | 8.58 | 8.52 | 8.36 |
| Capacity Control | | % | 2 - 100 | 2 - 100 | 2 - 100 | 2 - 100 | 2 - 100 | 3 - 100 |
| Compressor | Type | | Hermetically Sealed Scroll Type | | | | | |
| | No. of compressor | | 1+1 + 1 | | | | | |
| Airflow rate | | $m^3$/min | 266+266+430 | 185+411+411 | 266+430+430 | 266+430+411 | 261+411+411 | 430+430+430 |
| Dimensions (HxWxD) | | mm | (1660x1240x765) +(1660 x1240 x 765+ (1,660 x 1,750 x 765) | (1660 x 930 x 765) +(1,660 x 1,750 x 765)+ (1,660 x 1,750 x 765) | (1660 x1240 x 765) + (1,660 x 1,750 x 765)+ (1,660 x 1,750 x 765) | (1660 x 1240 x 765)+ (1,660 x 1,750 x 765)+(1,660 x 1,750 x 765) | | (1660 x1750 x765) + (1,660 x 1,750 x 765)+(1,660 x 1,750 x 765) |
| Machine weight | | kg | 262+262+350 | 202+350+350 | 262+324+324 | 262+324+350 | 262+350+350 | 324+324+324 |
| Sound level | | dBA | 71 | 72 | 72 | 72 | 72 | 73 |
| Operation range | Cooling | °CDB | 10 ~ 52 | | | | | |
| Refrigerant | Type | | R410A | | | | | |
| | Charge | kg | 10.1+10.1+11.7 | 7.5+11.7+11.7 | 10.1+11.7+11.7 | 10.1+11.7+11.7 | 10.1+11.7+11.7 | 11.7+11.7+11.7 |
| Piping connections | Liquid | mm | ø 19.1 | | | | | |
| | Gas | mm | ø 41.3 | | | | | |

**Note: Specifications are based on the following conditions:**

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5m, Level difference: 0m.
- Sound level: Anechoic chamber conversion value, measured at a point 1m in front of the unit at a height of 1.5m.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- (ES) for anticorrosion treated outdoor unit.

# Specifications

## Outdoor Units

### VRV α™ (Cooling Only)

| MODEL | | | RXQ74BRY16 | RXQ76BRY16 | RXQ78BRY16 |
|---|---|---|---|---|---|
| Combination units | | | RXQ24BRY16 | RXQ24BRY16 | RXQ26BRY16 |
| | | | RXQ24BRY16 | RXQ26BRY16 | RXQ26BRY16 |
| | | | RXQ26BRY16 | RXQ26BRY16 | RXQ26BRY16 |
| Power supply | | | 3 PHASE, 50Hz , 380-415 V | | |
| Cooling capacity | | Btu/h | 706000 | 727000 | 747000 |
| | | kW | 207 | 213 | 219 |
| ISEER | | w/w | 8.56 | 8.55 | 8.40 |
| Capacity Control | | % | 3 - 100 | 3 - 100 | 3 - 100 |
| Compressor | Type | | Hermetically Sealed Scroll Type | | |
| | No. of compressor | | 1+1+1 | | |
| Airflow rate | | $m^3$/min | 430+430+411 | 430+411+411 | 411+411+411 |
| Dimensions (HxWxD) | | mm | (1,660 x 1,750 x 765)+ (1,660 x 1,750 x 765)+(1,660 x 1,750 x 765) | | |
| Machine weight | | kg | 324+324+350 | 324+350+350 | 350+350+350 |
| Sound level | | dBA | 73 | 73 | 73 |
| Operation range | Cooling | °CDB | 10 ~ 52 | | |
| Refrigerant | Type | | R410A | | |
| | Charge | kg | 11.7+11.7+11.7 | 11.7+11.7+11.7 | 11.7+11.7+11.7 |
| Piping connections | Liquid | mm | ø 22.2 | | |
| | Gas | mm | ø 41.3 | | |

**Note: Specifications are based on the following conditions:**

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5m, Level difference: 0m.
- Sound level: Anechoic chamber conversion value, measured at a point 1m in front of the unit at a height of 1.5m.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- (ES) for anticorrosion treated outdoor unit.

# Specifications

## Outdoor Units

### VRV α™ (Heat Pump)

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| **MODEL** | | | **RXYQ6BRY16** | **RXYQ8BRY16** | **RXYQ10BRY16** | **RXYQ12BRY16** | **RXYQ14BRY16** | **RXYQ16BRY16** |
| **Combination units** | | | — | — | — | — | — | — |
| Power supply | | | 3 PHASE, 50Hz , 380-415 V | | | | | |
| Cooling capacity | | Btu/h | 54600 | 76400 | 95500 | 114000 | 136000 | 154000 |
| | | kW | 16 | 22.4 | 28 | 33.5 | 40 | 45 |
| Heating capacity | | Btu/h | 61400 | 85300 | 107000 | 128000 | 154000 | 171000 |
| | | kW | 18.0 | 25.0 | 31.5 | 37.5 | 45.0 | 50.0 |
| ISEER | | w/w | 10.90 | 9.66 | 11.40 | 10.81 | 8.67 | 8.47 |
| Capacity control | | % | 11-100 | 11-100 | 13-100 | 12-100 | 7-100 | 6-100 |
| Compressor | Type | | Hermetically Sealed Scroll Type | | | | | |
| | No. of compressors | | 1 | | | | 1+1 | |
| Airflow rate | | $m^3$/min | 155 | 155 | 169 | 181 | 260 | 266 |
| Dimensions (HxWxD) | | mm | 1660 x 930 x 765 | | | | 1660 x 1240 x 765 | |
| Machine weight | | kg | 210 | 210 | 220 | 220 | 305 | 305 |
| Sound level (C/H) | | dBA | 56/56 | 56/56 | 57/58 | 60/62 | 61/61 | 61/61 |
| Operation range | Cooling | °CDB | -5 ~ 52 | | | | | |
| | Heating | °CWB | -25 ~ 15.5 | | | | | |
| Refrigerant | Type | | R410A | | | | | |
| | Charge | kg | 6.8 | 6.9 | 7.1 | 7.2 | 9.7 | 9.9 |
| Piping connections | Liquid | mm | ø 9.5 | | | ø 12.7 | | |
| | Gas | mm | ø 19.1 | | ø 22.2 | ø 28.6 | | |

**Note: Specifications are based on the following conditions:**

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5m, Level difference: 0.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°WB, Equivalent piping length: 7.5m, Level difference: 0m.
- Sound level: Anechoic chamber conversion value, measured at a point 1m in front of the unit at a height of 1.5m.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.

# Specifications

## Outdoor Units

### VRV α™ (Heat Pump)

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| **MODEL** | | | **RXYQ18BRY16** | **RXYQ20BRY16** | **RXYQ22BRY16** | **RXYQ24BRY16** | **RXYQ26BRY16** | **RXYQ28BRY16** |
| **Combination units** | | | — | — | — | — | — | RXYQ12BRY16<br>RXYQ16BRY16<br>- |
| Power supply | | | 3 PHASE, 50Hz , 380-415 V | | | | | |
| Cooling capacity | | Btu/h | 171000 | 191000 | 210000 | 229000 | 249000 | 268000 |
| | | kW | 50 | 56 | 61.5 | 67 | 73 | 78.5 |
| Heating capacity | | Btu/h | 191000 | 215000 | 235000 | 249000 | 249000 | 299000 |
| | | kW | 56.0 | 63.0 | 69.0 | 73.0 | 73 | 87.5 |
| ISEER | | w/w | 8.56 | 8.38 | 9.09 | 8.88 | 7.77 | 9.32 |
| Capacity control | | % | 5-100 | 5-100 | 6-100 | 6-100 | 6-100 | 4 - 100 |
| Compressor | Type | | Hermetically Sealed Scroll Type | | | | | |
| | No. of compressors | | 1+1 | | | | | 2+1 |
| Airflow rate | | $m^3$/min | 258 | 306 | 430 | 430 | 430 | 181+266 |
| Dimensions (HxWxD) | | mm | 1660 x 1240 x 765 | | 1660 x 1750 x 765 | | | (1660 x 1240 x 765)<br>+ (1660 x 930 x 765) |
| Machine weight | | kg | 335 | 335 | 380 | 380 | 380 | 220 + 305 |
| Sound level (C/H) | | dBA | 61/61 | 65/66 | 67/67 | 68/68 | 68/68 | 64/65 |
| Operation range | Cooling | °CDB | -5 ~ 52 | | | | | |
| | Heating | °CWB | -25 ~ 15.5 | | | | | |
| Refrigerant | Type | | R410A | | | | | |
| | Charge | kg | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 7.2+9.9 |
| Piping connections | Liquid | mm | ø 15.9 | | | | ø 19.1 | |
| | Gas | mm | ø 28.6 | | | ø 34.9 | | |

**Note: Specifications are based on the following conditions:**

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5m, Level difference: 0.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°WB, Equivalent piping length: 7.5m, Level difference: 0m.
- Sound level: Anechoic chamber conversion value, measured at a point 1m in front of the unit at a height of 1.5m.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.

# Specifications

## Outdoor Units

### VRV α™ (Heat Pump)

| MODEL | | | RXYQ30BRY16 | RXYQ32BRY16 | RXYQ34BRY16 | RXYQ36BRY16 | RXYQ38BRY16 | RXYQ40BRY16 |
|---|---|---|---|---|---|---|---|---|
| Combination units | | | RXYQ12BRY16 | RXYQ12BRY16 | RXYQ12BRY16 | RXYQ12BRY16 | RXYQ12BRY16 | RXYQ20BRY16 |
| | | | RXYQ18BRY16 | RXYQ20BRY16 | RXYQ22BRY16 | RXYQ24BRY16 | RXYQ26BRY16 | RXYQ20BRY16 |
| | | | - | - | - | - | - | - |
| Power supply | | | 3 PHASE, 50Hz , 380-415 V | | | | | |
| Cooling capacity | | Btu/h | 285000 | 305000 | 324000 | 341000 | 362000 | 382000 |
| | | kW | 83.5 | 89.5 | 95 | 100 | 106 | 112 |
| Heating capacity | | Btu/h | 319000 | 341000 | 362000 | 375000 | 375000 | 430000 |
| | | kW | 93.5 | 100 | 106 | 110 | 110 | 126 |
| ISEER | | w/w | 9.33 | 9.15 | 9.96 | 9.84 | 9.29 | 8.38 |
| Capacity control | | % | 3 - 100 | 3 - 100 | 3 - 100 | 4 - 100 | 4 - 100 | 3 - 100 |
| Compressor | Type | | Hermetically Sealed Scroll Type | | | | | |
| | No. of compressors | | 2+1 | | | | | 2+2 |
| Airflow rate | | $m^3$/min | 181+258 | 181+306 | 430+181 | 181+430 | 181+430 | 306+306 |
| Dimensions (HxWxD) | | mm | (1660 x 1240 x 765) + (1660 x 930 x 765) | | (1,660 x 1,750 x 765) + (1660 x 930 x 765) | | | (1660 x 1240 x 765) + (1660 x 1240 x 765) |
| Machine weight | | kg | 220 + 335 | 220 + 335 | 220+380 | 220+380 | 335 + 335 | 335 + 335 |
| Sound level (C/H) | | dBA | 64/65 | 66/67 | 68/68 | 69/69 | 69/69 | 68/69 |
| Operation range | Cooling | °CDB | -5 ~ 52 | | | | | |
| | Heating | °CWB | -25 ~ 15.5 | | | | | |
| Refrigerant | Type | | R410A | | | | | |
| | Charge | kg | 7.2+11.7 | 7.2+11.7 | 7.2+11.7 | 7.2+11.7 | 7.2+11.7 | 11.7 +11.7 |
| Piping connections | Liquid | mm | ø 19.1 | | | | | |
| | Gas | mm | ø 34.9 | | | ø 41.3 | | |

**Note: Specifications are based on the following conditions:**

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5m, Level difference: 0.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°WB, Equivalent piping length: 7.5m, Level difference: 0m.
- Sound level: Anechoic chamber conversion value, measured at a point 1m in front of the unit at a height of 1.5m.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.

# Specifications

## Outdoor Units

### VRV α™ (Heat Pump)

| MODEL | | | RXYQ42BRY16 | RXYQ44BRY16 | RXYQ46BRY16 | RXYQ48BRY16 | RXYQ50BRY16 | RXYQ52BRY16 |
|---|---|---|---|---|---|---|---|---|
| Combination units | | | RXYQ16BRY16 | RXYQ20BRY16 | RXYQ20BRY16 | RXYQ22BRY16 | RXYQ24BRY16 | RXYQ26BRY16 |
| | | | RXYQ26BRY16 | RXYQ24BRY16 | RXYQ26BRY16 | RXYQ26BRY16 | RXYQ26BRY16 | RXYQ26BRY16 |
| | | | - | - | - | - | | |
| Power supply | | | 3 PHASE, 50Hz , 380-415 V | | | | | |
| Cooling capacity | | Btu/h | 403000 | 420000 | 440000 | 457000 | 478000 | 498000 |
| | | kW | 118 | 123 | 129 | 134 | 140 | 146 |
| Heating capacity | | Btu/h | 420000 | 464000 | 464000 | 485000 | 498000 | 498000 |
| | | kW | 123 | 136.0 | 136.0 | 142 | 146 | 146 |
| ISEER | | w/w | 8.12 | 8.63 | 8.01 | 8.31 | 8.26 | 7.76 |
| Capacity control | | % | 3 - 100 | 2 - 100 | 2 - 100 | 3 - 100 | 3 - 100 | 3 - 100 |
| Compressor | Type | | Hermetically Sealed Scroll Type | | | | | |
| | No. of compressors | | 2+2 | | | | | |
| Airflow rate | | m³/min | 266+430 | 306+430 | 430+306 | 430+430 | 430+430 | 430+430 |
| Dimensions (HxWxD) | | mm | (1660 x 1240 x 765) + (1660 x 1750 x 765) | | | (1660x1750x765) +(1660x1750x765) | | |
| Machine weight | | kg | 305 + 380 | 335 + 380 | 380+335 | 380+380 | 380+380 | 380+380 |
| Sound level (C/H) | | dBA | 69/69 | 71/71 | 70/70 | 71/71 | 71/71 | 71/71 |
| Operation range | Cooling | °CDB | -5 ~ 52 | | | | | |
| | Heating | °CWB | -25 ~ 15.5 | | | | | |
| Refrigerant | Type | | R410A | | | | | |
| | Charge | kg | 11.7 +9.9 | 11.7+11.7 | 11.7+11.7 | 11.7 +11.7 | 11.7 +11.7 | 11.7 +11.7 |
| Piping connections | Liquid | mm | ø 19.1 | | | | | |
| | Gas | mm | ø 41.3 | | | | | |

**Note: Specifications are based on the following conditions:**

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5m, Level difference: 0.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°WB, Equivalent piping length: 7.5m, Level difference: 0m.
- Sound level: Anechoic chamber conversion value, measured at a point 1m in front of the unit at a height of 1.5m.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.

# Specifications

## Outdoor Units

### VRV α™ (Heat Pump)

| MODEL | | | RXYQ54BRY16 | RXYQ56BRY16 | RXYQ58BRY16 | RXYQ60BRY16 | RXYQ62BRY16 | RXYQ64BRY16 |
|---|---|---|---|---|---|---|---|---|
| Combination units | | | RXYQ12BRY16 | RXYQ12BRY16 | RXYQ12BRY16 | RXYQ12BRY16 | RXYQ12BRY16 | RXYQ12BRY16 |
| | | | RXYQ16BRY16 | RXYQ20BRY16 | RXYQ20BRY16 | RXYQ24BRY16 | RXYQ24BRY16 | RXYQ26BRY16 |
| | | | RXYQ26BRY16 | RXYQ24BRY16 | RXYQ26BRY16 | RXYQ24BRY16 | RXYQ26BRY16 | RXYQ26BRY16 |
| Power supply | | | 3 PHASE, 50Hz , 380-415 V | | | | | |
| Cooling capacity | | Btu/h | 515000 | 532000 | 553000 | 570000 | 590000 | 611000 |
| | | kW | 151 | 156 | 162 | 167 | 173 | 179 |
| Heating capacity | | Btu/h | 546000 | 590000 | 590000 | 624000 | 624000 | 624000 |
| | | kW | 160 | 167 | 173 | 183 | 183 | 183 |
| ISEER | | w/w | 9.00 | 9.36 | 8.99 | 9.52 | 9.15 | 8.78 |
| Capacity control | | % | 2 - 100 | 2 - 100 | 2~100 | 2~100 | 3~100 | 3~100 |
| Compressor | Type | | Hermetically Sealed Scroll Type | | | | | |
| | No. of compressors | | 1+2+2 | | | | | |
| Airflow rate | | $m^3$/min | 181+266+430 | 169+430+306 | 181+430+306 | 181+430+430 | 181+430+430 | 181+430+430 |
| Dimensions (HxWxD) | | mm | (1660 x 930 x 765) +(1660 x 1240 x 765)+ (1660 x 1750 x 765) | | | (1660 x 930 x 765) +(1660 x 1750 x 765)+ (1660 x 1750 x 765) | | |
| Machine weight | | kg | 220+305+380 | 220+335+380 | 220+335+380 | 220+380+380 | 220+380+380 | 220+380+380 |
| Sound level (C/H) | | dBA | 69/70 | 70/71 | 70/71 | 71/72 | 71/72 | 71/72 |
| Operation range | Cooling | °CDB | -5 ~ 52 | | | | | |
| | Heating | °CWB | -25 ~ 15.5 | | | | | |
| Refrigerant | Type | | R410A | | | | | |
| | Charge | kg | 7.2+9.9+11.7 | 7.1+11.7+11.7 | 7.2+11.7+11.7 | 7.2+11.7+11.7 | 7.2+11.7+11.7 | 7.2+11.7+11.7 |
| Piping connections | Liquid | mm | ø 19.1 | | | | | |
| | Gas | mm | ø 41.3 | | | | | |

**Note: Specifications are based on the following conditions:**

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5m, Level difference: 0.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°WB, Equivalent piping length: 7.5m, Level difference: 0m.
- Sound level: Anechoic chamber conversion value, measured at a point 1m in front of the unit at a height of 1.5m.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.

# Specifications

## Outdoor Units

### VRV α™ (Heat Pump)

| | | | | | | |
|---|---|---|---|---|---|---|
| **RXYQ66BRY16** | **RXYQ68BRY16** | **RXYQ70BRY16** | **RXYQ72BRY16** | **RXYQ74BRY16** | **RXYQ76BRY16** | **RXYQ78BRY16** |
| RXYQ20BRY16 | RXYQ16BRY16 | RXYQ20BRY16 | RXYQ20BRY16 | RXYQ22BRY16 | RXYQ24BRY16 | RXYQ26BRY16 |
| RXYQ20BRY16 | RXYQ26BRY16 | RXYQ24BRY16 | RXYQ26BRY16 | RXYQ26BRY16 | RXYQ26BRY16 | RXYQ26BRY16 |
| RXYQ26BRY16 | RXYQ26BRY16 | RXYQ26BRY16 | RXYQ26BRY16 | RXYQ26BRY16 | RXYQ26BRY16 | RXYQ26BRY16 |
| 3 PHASE, 50Hz , 380-415 V | | | | | | |
| 631000 | 652000 | 669000 | 689000 | 706000 | 727000 | 747000 |
| 185 | 191 | 196 | 202 | 207 | 213 | 219 |
| 679000 | 669000 | 713000 | 713000 | 734000 | 747000 | 747000 |
| 199 | 196 | 209 | 209 | 215 | 219 | 219 |
| 8.09 | 8.04 | 8.26 | 7.88 | 8.07 | 8.08 | 7.75 |
| 2 - 100 | 2 - 100 | 2 - 100 | 2 - 100 | 2 - 100 | 2 - 100 | 2 - 100 |
| Hermetically Sealed Scroll Type | | | | | | |
| 2+2+2 | | | | | | |
| 306+306+430 | 266+430+430 | 306+430+430 | 306+430+430 | 430+430+430 | 430+430+430 | 430+430+430 |
| (1660 x 1240 x 765) +(1660 x 1240 x 765) + (1660 x 1750 x 765) | (1660 x1240x765)+ (1660 x1750x765) +(1660 x 1750 x 765) | | | (1,660 x 1,750 x 765)+ (1,660 x 1,750 x 765) +(1,660 x 1,750 x 765) | | |
| 335+335+380 | 305+380+380 | 335+380+380 | 335+380+380 | 380+380+380 | 380+380+380 | 380+380+380 |
| 71/72 | 71/71 | **71/71** | 71/71 | 69/70 | 69/70 | 69/70 |
| -5 ~ 52 | | | | | | |
| -25 ~ 15.5 | | | | | | |
| R410A | | | | | | |
| 11.7+11.7+11.7 | 9.9+11.7+11.7 | 11.7+11.7+11.7 | 11.7+11.7+11.7 | 11.7+11.7+11.7 | 11.7+11.7+11.7 | 11.7+11.7+11.7 |
| ø 19.1 | | | | ø 22.2 | | |
| ø 41.3 | | | | | | |

VRV α™

# OUTDOOR UNIT COMBINATIONS & OPTIONS LIST

# OUTDOOR UNIT COMBINATIONS

| OUTDOOR UNIT COMBINATIONS | | | | | | | |
|---|---|---|---|---|---|---|---|
| Capcity (HP) | Capacity Index(CI) | Model Name | Combination for Heat Pump Models | Combination for Cooling only Models | "Outdoor unit multi connection piping kit *1" | "Total capacity index of connectable indoor units*2" | "Maximum number of connectable indoor units*2" |
| 6 | 150 | RX(Y)Q6BRY16 | RXYQ6BRY16 | RXQ6BRY16 | - | 75 to 195 (300) | 9 (15) |
| 8 | 200 | RX(Y)Q8BRY16 | RXYQ8BRY16 | RXQ8BRY16 | - | 100 to 260 (400) | 13 (20) |
| 10 | 250 | RX(Y)Q10BRY16 | RXYQ10BRY16 | RXQ10BRY16 | - | 125 to 325 (500) | 16 (25) |
| 12 | 300 | RX(Y)Q12BRY16 | RXYQ12BRY16 | RXQ12BRY16 | - | 150 to 390 (600) | 19 (30) |
| 14 | 350 | RX(Y)Q14BRY16 | RXYQ14BRY16 | RXQ14BRY16 | - | 175 to 455 (700) | 22 (35) |
| 16 | 400 | RX(Y)Q16BRY16 | RXYQ16BRY16 | RXQ16BRY16 | - | 200 to 520 (800) | 26 (40) |
| 18 | 450 | RX(Y)Q18BRY16 | RXYQ18BRY16 | RXQ18BRY16 | - | 225 to 585 (900) | 29 (45) |
| 20 | 500 | RX(Y)Q20BRY16 | RXYQ20BRY16 | RXQ20BRY16 | - | 250 to 650 (1000) | 32 (50) |
| 22 | 550 | RX(Y)Q22BRY16 | RXYQ22BRY16 | RXQ22BRY16 | - | 275 to 715 (990) | 35 (49) |
| 24 | 600 | RX(Y)Q24BRY16 | RXYQ24BRY16 | RXQ24BRY16 | - | 300 to 780 (1080) | 39 (54) |
| 26 | 650 | RX(Y)Q26BRY16 | RXYQ26BRY16 | RXQ26BRY16 | - | 325 to 845 (1040) | 42 (52) |
| 28 | 700 | RX(Y)Q28BRY16 | RXYQ12BRY16+RXYQ16BRY16 | RXQ14BRY16+RXQ14BRY16 | BHFP22P1356 | 350 to 910 (1120) | 45 (56) |
| 30 | 750 | RX(Y)Q30BRY16 | RXYQ12BRY16+RXYQ18BRY16 | RXQ12BRY16+RXQ18BRY16 | | 375 to 975(1200) | 48 (60) |
| 32 | 800 | RX(Y)Q32BRY16 | RXYQ12BRY16+RXYQ20BRY16 | RXQ14BRY16+RXQ18BRY16 | | 400 to 1040 (1280) | 52 (64) |
| 34 | 850 | RX(Y)Q34BRY16 | RXYQ12BRY16+RXYQ22BRY16 | RXQ16BRY16+RXQ18BRY16 | | 425 to 1105 (1360) | 55 (64) |
| 36 | 900 | RX(Y)Q36BRY16 | RXYQ12BRY16+RXYQ24BRY16 | RXQ18BRY16+RXQ18BRY16 | | 450 to 1170 (1440) | 58 (64) |
| 38 | 950 | RX(Y)Q38BRY16 | RXYQ12BRY16+RXYQ26BRY16 | RXQ14BRY16+RXQ24BRY16 | | 475 to 1235 (1520) | 61 (64) |
| 40 | 1000 | RX(Y)Q40BRY16 | RXYQ20BRY16+RXYQ20BRY16 | RXQ14BRY16+RXQ26BRY16 | | 500 to 1300 (1600) | 64(64) |
| 42 | 1050 | RX(Y)Q42BRY16 | RXYQ16BRY16+RXYQ26BRY16 | RXQ18BRY16+RXQ24BRY16 | | 525 to 1365 (1680) | |
| 44 | 1100 | RX(Y)Q44BRY16 | RXYQ20BRY16+RXYQ24BRY16 | RXQ18BRY16+RXQ26BRY16 | | 550 to 1430 (1760) | |
| 46 | 1150 | RX(Y)Q46BRY16 | RXYQ20BRY16+RXYQ26BRY16 | RXQ22BRY16+RXQ24BRY16 | | 575 to 1495 (1840) | |
| 48 | 1200 | RX(Y)Q48BRY16 | RXYQ22BRY16+RXYQ26BRY16 | RXQ24BRY16+RXQ24BRY16 | | 600 to 1560 (1920) | |
| 50 | 1250 | RX(Y)Q50BRY16 | RXYQ24BRY16+RXYQ26BRY16 | RXQ24BRY16+RXQ26BRY16 | | 625 to 1625 (2000) | |
| 52 | 1300 | RX(Y)Q52BRY16 | RXYQ26BRY16+RXYQ26BRY16 | RXQ26BRY16+RXQ26BRY16 | | 650 to 1690 (2080) | |
| 54 | 1350 | RX(Y)Q54BRY16 | RXYQ12BRY16+RXY-Q16BRY16+RXYQ26BRY16 | RXQ18BRY16+RXQ18BRY16+RXQ18BRY16 | BHFP22P1686 | 675 to 1755(1755) | |
| 56 | 1400 | RX(Y)Q56BRY16 | RXYQ12BRY16+RXY-Q20BRY16+RXYQ24BRY16 | RXQ12BRY16+RXQ18BRY16+RXQ26BRY16 | | 700 to 1820(1820) | |
| 58 | 1450 | RX(Y)Q58BRY16 | RXYQ12BRY16+RXY-Q20BRY16+RXYQ26BRY16 | RXQ14BRY16+RXYQ18BRY16+RXQ26BRY16 | | 725 to 1885(1885) | |
| 60 | 1500 | RX(Y)Q60BRY16 | RXYQ12BRY16+RXY-Q24BRY16+RXYQ24BRY16 | RXQ18BRY16+RXQ18BRY16+RXQ24BRY16 | | 750 to 1950 (1950) | |
| 62 | 1550 | RX(Y)Q62BRY16 | RXYQ12BRY16+RXY-Q24BRY16+RXYQ26BRY16 | RXQ18BRY16+RXQ18BRY16+RXQ26BRY16 | | 775 to 2015(2015) | |
| 64 | 1600 | RX(Y)Q64BRY16 | RXYQ12BRY16+RXY-Q26BRY16+RXYQ26BRY16 | RXQ12BRY16+RXQ26BRY16+RXQ26BRY16 | | 800 to 2080(2080) | |
| 66 | 1650 | RX(Y)Q66BRY16 | RXYQ20BRY16+RXY-Q20BRY16+RXYQ26BRY16 | RXQ18BRY16+RXQ24BRY16+RXQ24BRY16 | | 825 to 2145(2145) | |
| 68 | 1700 | RX(Y)Q68BRY16 | RXYQ16BRY16+RXY-Q26BRY16+RXYQ26BRY1 | RXQ18BRY16+RXQ24BRY16+RXQ26BRY16 | | 850 to 2210(2210) | |
| 70 | 1750 | RX(Y)Q70BRY16 | RXYQ20BRY16+RXY-Q24BRY16+RXYQ26BRY16 | RXQ18BRY16+RXQ26BRY16+RXQ26BRY16 | | 875 to 2275(2275) | |
| 72 | 1800 | RX(Y)Q72BRY16 | RXYQ20BRY16+RXY-Q26BRY16+RXYQ26BRY16 | RXQ24BRY16+RXQ24BRY16+RXQ24BRY16 | | 900 to 2340(2340) | |
| 74 | 1850 | RX(Y)Q74BRY16 | RXYQ22BRY16+RXY-Q26BRY16+RXYQ26BRY16 | RXQ24BRY16+RXQ24BRY16+RXQ26BRY16 | | 925 to 2405(2405) | |
| 76 | 1900 | RX(Y)Q76BRY16 | RXYQ24BRY16+RXY-Q26BRY16+RXYQ26BRY16 | RXQ24BRY16+RXQ26BRY16+RXQ26BRY16 | | 950 to 2470(2470) | |
| 78 | 1950 | RX(Y)Q78BRY16 | RXYQ26BRY16+RXY-Q26BRY16+RXYQ26BRY16 | RXQ26BRY16+RXQ26BRY16+RXQ26BRY16 | | 975 to 2535 (2535) | |

Note: *1 For multiple connection of 22 HP systems and above, the outdoor unit multi connection piping kit (separately sold) is required.
*2 Values inside brackets are based on connection of indoor units rated at maximum capacity, 200% for single ODU units till 20HP,180% for 22HP & 24HP and 160% for26HP. 160% for double outdoor units, and 130% for triple outdoor units. Refer to page 16 for notes on connection capacity of indoor units.

# OPTION LIST

## VRV Indoor Units

### Ceiling Mounted Cassette Round Flow & Round Flow With Sensing (Optional)

| No. | Item | | | Type | FXFSQ25A FXFSQ32A FXFSQ40A | FXFSQ50A FXFSQ63A FXFSQ80A | FXFSQ100A FXFSQ125A FXFSQ140A |
|---|---|---|---|---|---|---|---|
| 1 | Decoration panel | Standard panel | | Fresh white | BYCQ125EAF6 * | | |
| | | | | Black | BYCQ125EAK * | | |
| | | Designer panel [1] | | Fresh white | BYCQ125EAPF * | | |
| | | Auto grille panel [2,3] | | Fresh white | BYCQ125EASF * | | |
| | | Sensing panel | | Fresh white | BYCQ140EEF6 * | | |
| | | | | Black | BYCQ125EEK * | | |
| 2 | Sealing material of air discharge outlet [4] | | | For usage of 3-4-way flow | KDBH551C160 | | |
| | | | | For usage of 2-way flow | KDBH552C160 | | |
| 3 | Panel spacer | | | | KDBP55H160FA | | |
| 4 | Fresh air intake kit | | Chamber type [5,6] | Without T-duct joint | KDDP55B160 (Components: KDDP55C160-1, KDDP55B160-2) [8] | | |
| | | | | With T-duct joint | KDDP55B160K (Components: KDDP55C160-1, KDDP55B160K2) [8] | | |
| | | | Direct installation type [7] | | KDDP55X160A | | |
| 5 | High-efficiency filter unit [9] (Including filter chamber) | | (Colorimetric method 65%) | | KAFP556C80 | | KAFP556C160 |
| | | | (Colorimetric method 90%) | | KAFP557C80 | | KAFP557C160 |
| 6 | Replacement high-efficiency filter [9,10] | | (Colorimetric method 65%) | | KAFP552B80 | | KAFP552B160 |
| | | | (Colorimetric method 90%) | | KAFP553B80 | | KAFP553B160 |
| 7 | Filter chamber | | | | KDDFP55C160 | | |
| 8 | Replacement long-life filter | | | | KAFP551K160 | | |
| 9 | Replacement long-life filter (Auto grille panel) | | | | KAFP551H160 | | |
| 10 | Ultra long-life filter unit (Including filter chamber) [9] | | | | KAFP55C160 | | |
| 11 | Replacement ultra long-life filter [9,10] | | | | KAFP55H160H | | |
| 12 | Branch duct chamber [4] | | | | KDJP55C80 | | KDJP55C160 |
| 13 | Insulation kit for high humidity [9,11] | | | | KDTP55K80 | | KDTP55K160 |

Note:
1. When installing designer panel, body height (ceiling required dimension) is 42 mm higher than standard panel. Designer panel cannot operate 2 and 3 way flow.
2. A dedicated wireless remote controller (BRC16A2) for the auto grille panel is included for lowering and raising the suction grille.
3. When installing auto grille panel, body height (ceiling required dimension) is 55 mm higher than standard panel.
4. Circulation airflow is not available with this option.
5. When installing a fresh air intake kit (chamber type), two air outlet corners are closed.
6. 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.
7. 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.
8. Please order using the names of both components instead of set name.
9. This option cannot be installed to designer panel and auto grille panel.
10. Filter chamber is required.
11. Please use in case temperature/humidity inside ceiling may get over 30°C, 80% RH.

*These panels do not contain the sensing function.

### Ceiling Mounted Cassette (Compact Multi Flow) Type

| FOR UNIT | | MODEL |
|---|---|---|
| Decorative Panel | | BYFQ60CBW6 |
| Sensor Kit | | BRYQ60AAW6 |
| Wired Remote Controller | Standard | BRC1E63 |
| | Simple | BRC2E61 * |
| | High End (Madoka) | BRC1H63W * |
| | | BRC1H63K * |
| Wireless Remote Controller | | BRC7M530W6+BRC4M150W16 |
| Fresh air intake kit | | BAPWS55A61 |

Notes:
1. Installation box*2 is necessary for each adaptor marked.
2. Up to 2 adaptors can be fixed for each installation box.
3. Only one installation box can be installed for each indoor unit.

# OPTION LIST

## VRV Indoor Units

### Ceiling Mounted Cassette (Double Flow) Type

| No. | Item | | | Type | FXCQ25A | FXCQ32A<br>FXCQ40A | FXCQ50A | FXCQ63A | FXCQ80A | FXCQ125A |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Decoration panel | | | | BYBCQ40CF | | BYBCQ63CF | | BYBCQ125CF | |
| 2 | Filter related | High efficiency filter*1 | 65% | | KAFP532B50 | | KAFP532B80 | | KAFP532B160 | |
| | | | 90% | | KAFP533B50 | | KAFP533B80 | | KAFP533B160 | |
| | | Filter chamber bottom suction | | | KDDFP53B50 | | KDDFP53B80 | | KDDFP53B160 | |
| | | Long-life replacement filter | | | KAFP531B50 | | KAFP531B80 | | KAFP531B160 | |
| 3 | Remote controller | Wireless | | H/P | BRC7M65 | | | | | |
| 4 | Navigation remote controller (Wired remote controller) | | | | BRC1E63 | | | | | |

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

### Ceiling Mounted Cassette Corner Type

| Item | MODEL | | | |
|---|---|---|---|---|
| | FXKQ32ARV16 | FXKQ40ARV16 | FXKQ50ARV16 | FXKQ63ARV16 |
| Decoration panel | BYKQ63AHW (Surface colour: White / Base colour: Dark gray) | | | |
| | BYKQ63AHS (Surface colour: Silver / Base colour: Dark gray) | | | |
| | BYKQ63AW (Surface Colour: White/ Base Colour: White) | | | |
| PM2.5 filter | Initial installation kit (Frame + PM 2.5 filter)<br>Model: BAF25A6 | | | |
| | Only PM 2.5 filter replacement<br>Part No.: 3P454777-3 | | | |
| Spacer Kit | BKF25A6 / BKF25CA6 / BKF50CA6 / BKF75SA6 | | | |

C: 4D138977A

### Slim Ceiling Mounted Duct Type (700 mm width type)

| No. | Item | Type | FXDQ20PD | FXDQ25PD | FXDQ32PD |
|---|---|---|---|---|---|
| 1 | Insulation kit for high humidity | | KDT25N32 | | |

### Slim Ceiling Mounted Duct Type (900/1,100 mm width type)

| No. | Item | Type | FXDQ40ND | FXDQ50ND | FXDQ63ND |
|---|---|---|---|---|---|
| 1 | Insulation kit for high humidity | | KDT25N50 | | KDT25N63 |

### High Static Ceiling Mounted Duct Type

| No. | Item | | Type | FXMQ20P<br>FXMQ25P<br>FXMQ32P | FXMQ40PBV36 | FXMQ50PBV36<br>FXMQ63PBV36<br>FXMQ80PBV36 | FXMQ100PBV36<br>FXMQ125PBV36<br>FXMQ140PBV36 |
|---|---|---|---|---|---|---|---|
| 1 | Drain pump kit | | | – | | | |
| 2 | High efficiency filter | 65% | | KAF372AA36 | KAF372AA56 | KAF372AA80 | KAF372AA160 |
| | | 90% | | – | KAF373AA56 | KAF373AA80 | KAF373AA160 |
| 3 | Filter chamber | | | – | BDDF37A40~6 | BDDF37A80~6 | BDDF37A140~6 |
| 4 | Long-life replacement filter | | | – | KAF371AA56 | KAF371AA80 | KAF371AA160 |
| 5 | Long-life filter chamber kit | | | – | KAF375AA56 | KAF375AA80 | KAF375AA160 |
| 6 | Service panel | | White | – | KTBJ25K56W | KTBJ25K80W | KTBJ25K160W |
| | | | Fresh white | KTBJ25K36F | KTBJ25K56F | KTBJ25K80F | KTBJ25K160F |
| | | | Brown | – | KTBJ25K56T | KTBJ25K80T | KTBJ25K160T |
| 7 | Air discharge adaptor | | | KDAJ25K36A | KDAJ25K56A | KDAJ25K71A | KDAJ25K140A |
| 8 | Suction flange | | | – | BDF37A40~6 | BDF37A80~6 | BDF37A140~6 |

# OPTION LIST

## VRV Indoor Units

### Ceiling Suspended Type

| No. | Item / Type | FXHQ32MA | FXHQ63MA | FXHQ100MA |
|---|---|---|---|---|
| 1 | Drain pump kit | KDU50N60VE | KDU50N125VE | |
| 2 | Replacement long-life filter (Resin net) | KAF501DA56 | KAF501DA80 | KAF501DA112 |
| 3 | L-type piping kit (for upward direction) | KHFP5MA63 | KHFP5MA160 | |

### Floor Standing Type/Concealed Floor Standing Type

| No. | Item / Type | FXLQ32MA/FXNQ32MA | FXLQ50MA/FXNQ50MA | FXLQ63MA/FXNQ63MA |
|---|---|---|---|---|
| 1 | Long-life replacement filter | KAFJ361K45 | KAFJ361K71 | |

### Mid Static Ceiling Mounted Duct Type

| No. | Item / Type | | | Duct Type | |
|---|---|---|---|---|---|
| | | | | FXMQ40ARV16, FXMQ50ARV16 | FXMQ63ARV16, FXMQ80ARV16, FXMQ100ARV16 |
| 1 | High efficiency filter | 65% | Type | KAF372AA56 | KAF372AA80 |
| 2 | Filter chamber | | Type | BDDF37A40~6 | BDDF37A80~6 |
| 3 | Long-life replacement filter | | Type | KAF371AA56 | KAF371AA80 |
| 4 | Suction flange | | | BDF37A40~6 | BDF37A80~6 |
| | | | | KTBJ25K56W | KTBJ25K80W |
| 5 | Service panel | | | KTBJ25K56F | KTBJ25K80F |
| | | | | KTBJ25K56T | KTBJ25K80T |
| 6 | Air discharge adaptor | | | KDAJ25K56A | KDAJ25K71A |

### Floor Standing Duct Type

| No. | Item / Type | | | | FXVQ125N | FXVQ200N | FXVQ250N | FXVQ400N | FXVQ500N |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Discharge and Suction | Replacement long life filter | | | KAFJ261M140 | KAFJ261M224 | KAFJ261M280 | KAFJ261N450 | KAFJ261N560 |
| 2 | Discharge and Suction | Ultra long-life filter | | | — | | | KAFSJ9A400 | KAFSJ9A560 |
| 3 | Discharge and Suction | Front suction filter chamber for high efficiency filter | Filter chamber for high efficiency filter *1 | 65% | KDDF-92A140 | KDDF-92A200 | KDDF-92A280 | KDDF-92A400 | KDDF-92A560 |
| 4 | Discharge and Suction | Front suction filter chamber for high efficiency filter | Filter chamber for high efficiency filter *1 | 90% | KDDF-93A140 | KDDF-93A200 | KDDF-93A280 | KDDF-93A400 | KDDF-93A560 |
| 5 | Discharge and Suction | Front suction filter chamber for high efficiency filter | Front suction base flange | | KD-9A140 | KD-9A200 | KD-9A280 | KD-9A400 | KD-9A560 |
| 6 | Discharge and Suction | Front suction filter chamber for high efficiency filter | Suction grille | | KDGF-9A140 | KDGF-9A200 | KDGF-9A280 | KDGF-9A400 | KDGF-9A560 |
| 7 | Discharge and Suction | Front suction filter chamber for high efficiency filter | Replacement filter *2 | Long-life filter *3 | KAF-91B140 | KAF-91B200 | KAF-91B280 | KAF-91B400 | KAF-91B560 |
| 8 | Discharge and Suction | Front suction filter chamber for high efficiency filter | Replacement filter *2 | High efficiency filter 65% | KAF-92B140 | KAF-92B200 | KAF-92B280 | KAF-92B400 | KAF-92B560 |
| 9 | Discharge and Suction | Front suction filter chamber for high efficiency filter | Replacement filter *2 | High efficiency filter 90% | KAF-93B140 | KAF-93B200 | KAF-93B280 | KAF-93B400 | KAF-93B560 |
| 10 | Discharge and Suction | Plenum chamber *4 | | | KPCJ140A | KPC5J | KPC8J | KPCJ400A | KPC15JA |
| 11 | Discharge and Suction | Pulley for plenum chamber *4 | | | KPP8JA | KPP9JA | KPP10JA | – | |
| 12 | Discharge and Suction | Fresh air intake kit | | | KD106D10 | | | KDFJ906A560 | |
| 13 | Discharge and Suction | Rear suction kit | | | KDFJ905A140 | KDFJ905A200 | KDFJ905A280 | KDFJ905A400 | KDFJ905A560 |
| 14 | Discharge and Suction | Discharge grille for plenum side | | | KD101A10 | | | KD101A20 | |
| 15 | Wood base | | | | KKWJ9A140 | KWF1G5P | KWF1G8P | KKWJ9A400 | KWF1G15 |
| 16 | Vibration isolating frame | | | | K-ABSG1406A | K-ABSG1407A | K-ABSG1408A | K-ABSG1409A | K-ABSG1410A |

*1 A front suction base flange and suction grille are required (option).
*2 A filter chamber for high efficiency is required (option).
*3 Different from the filter attached as standard.
*4 Use the plenum chamber and pulley for plenum chamber in combination.

# OPTION LIST

## VRV Indoor Units

| Optional Accessories | | RX(Y)Q6BRY16<br>RX(Y)Q8BRY16<br>RX(Y)Q10BRY16 | RX(Y)Q12BRY16<br>RX(Y)Q14BRY16<br>RX(Y)Q16BRY16 | RX(Y)Q18BRY16<br>RX(Y)Q208BRY16<br>RX(Y)Q22BRY16 |
|---|---|---|---|---|
| Distributive piping | REFNET Header | KHRP26M22H, (Max. 4 branch)<br>KHRP26M33H (Max. 8 branch) | KHRP26M22H, KHRP26M33H, KHRP26M72H<br>(Max. 4 branch) (Max. 8 branch) (Max. 8 branch) | |
| | REFNET Joint | KHRP26A22T6,KHRP26A33T6 | KHRP26A22T6, KHRP26A33T6, KHRP26A72T6 | |

| Optional Accessories | | RX(Y)Q24BRY16<br>RX(Y)Q26BRY16 | RX(Y)Q28BRY16<br>RX(Y)Q30BRY16<br>RX(Y)Q32BRY16<br>RX(Y)Q34BRY16 | RX(Y)Q36BRY16<br>RX(Y)Q38BRY16<br>RX(Y)40BRY16<br>RX(Y)Q42BRY16 |
|---|---|---|---|---|
| Distributive piping | REFNET Header | KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H<br>(Max.4 branch) (Max.8 branch) (Max.8 branch) (Max.8 branch) | | |
| | REFNET Joint | KHRP26A22T6, KHRP26A33T6, KHRP26A72T6, KHRP26A73T6 | | |
| Pipe Size reducer | | KHRP26M73HP, KHRP26M73TP7 | | |
| Outdoor Unit Connecting Piping Kit | | BHFP22R1356 | | |

| Optional Accessories | | RX(Y)Q44BRY16<br>RX(Y)Q46BRY16<br>RX(Y)48BRY16 | RX(Y)Q50BRY16<br>RX(Y)Q52BRY16 | RX(Y)Q54BRY16<br>RX(Y)Q56BRY16<br>RX(Y)Q58BRY16<br>RX(Y)Q60BRY16 |
|---|---|---|---|---|
| Distributive piping | REFNET Header | KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H<br>(Max.4 branch) (Max.8 branch) (Max.8 branch) (Max.8 branch) | | |
| | REFNET Joint | KHRP26A22T6, KHRP26A33T6, KHRP26A72T6, KHRP26A73T6 | | |
| Pipe Size reducer | | KHRP26M73HP, KHRP26M73TP7 | | |
| Outdoor Unit Connecting Piping Kit | | BHFP22R1356 | | BHFP22R1686 |

| Optional Accessories | | RX(Y)Q54BRY16<br>RX(Y)Q56BRY16<br>RX(Y)Q58BRY16<br>RX(Y)Q60BRY16 | RX(Y)Q62BRY16<br>RX(Y)Q64BRY16<br>RX(Y)Q66BRY16<br>RX(Y)Q68BRY16 | RX(Y)Q70BRY16<br>RX(Y)Q72BRY16<br>RX(Y)Q74BRY16<br>RX(Y)Q76BRY16<br>RX(Y)Q78BRY16 |
|---|---|---|---|---|
| Distributive piping | REFNET Header | KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H<br>(Max.4 branch) (Max.8 branch) (Max.8 branch) (Max.8 branch) | | |
| | REFNET Joint | KHRP26A22T6, KHRP26A33T6, KHRP26A72T6, KHRP26A73T6 | | |
| Pipe Size reducer | | KHRP26M73HP, KHRP26M73TP7 | | |
| Outdoor Unit Connecting Piping Kit | | BHFP22R1686 | | |

VRV α™

# CONTROL SYSTEMS

# Reiri OFFICE | HOME | HOTEL

## Reiri for Office

Reiri for Office is the ideal building management solution for all sizes of commercial buildings, especially for small to medium-sized buildings, regardless of location. This smart building solution provides affordable and scalable building control and energy management, allowing users greater control and automation of building utilities such as air-conditioning and lighting, and to monitor and manage energy performance and indoor air quality.

Expanded Features

Reiri for Office
DCPF01

Reiri for Office
Controller Extension
DCPF05

Reiri for Office
Multisite Extension
DCPF10

## Reiri for Home

Reiri for Home is the complete smart home solution with seamless integration capabilities, allowing users to control and monitor all smart home devices conveniently from just a single mobile app. From security and safety enhancements to indoor air quality and energy management, Reiri for Home is the ideal home automation system for every homeowner.

Reiri for Home
DCPH01

Reiri for Home
Lite Version
DCPH02

## Reiri for Hotel

Reiri for Hotel effectively saves energy and cost while prioritizing guests' comfort and satisfaction. With this smart hotel solution, energy consumption is optimised without compromising on the guests' in-room comfort. Hotel managers and staff are also able to conveniently monitor the status and manage the settings of every room.

Reiri for Hotel
DCPL01

Reiri for Resort
DCPR01

# Control Systems

## Centralized control lineup

Function

**Building management**

DAi-edge Pro

Dai edge Pro
**DGE601A51**

Option
Max.
512 Units

intelligent touch Manager

intelligent Touch Manager
**DCM601B51**

Option
Max.
512 groups

Reiri for Office

Touchscreen Controller
**DCPF04**

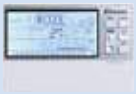
Multi Device
**DCPF01**

Option
Max.
256 groups

**Central control**

Central remote controller
**DCS302CA61**

Max.
64
groups



Residential central remote controller
**DCS303A51**

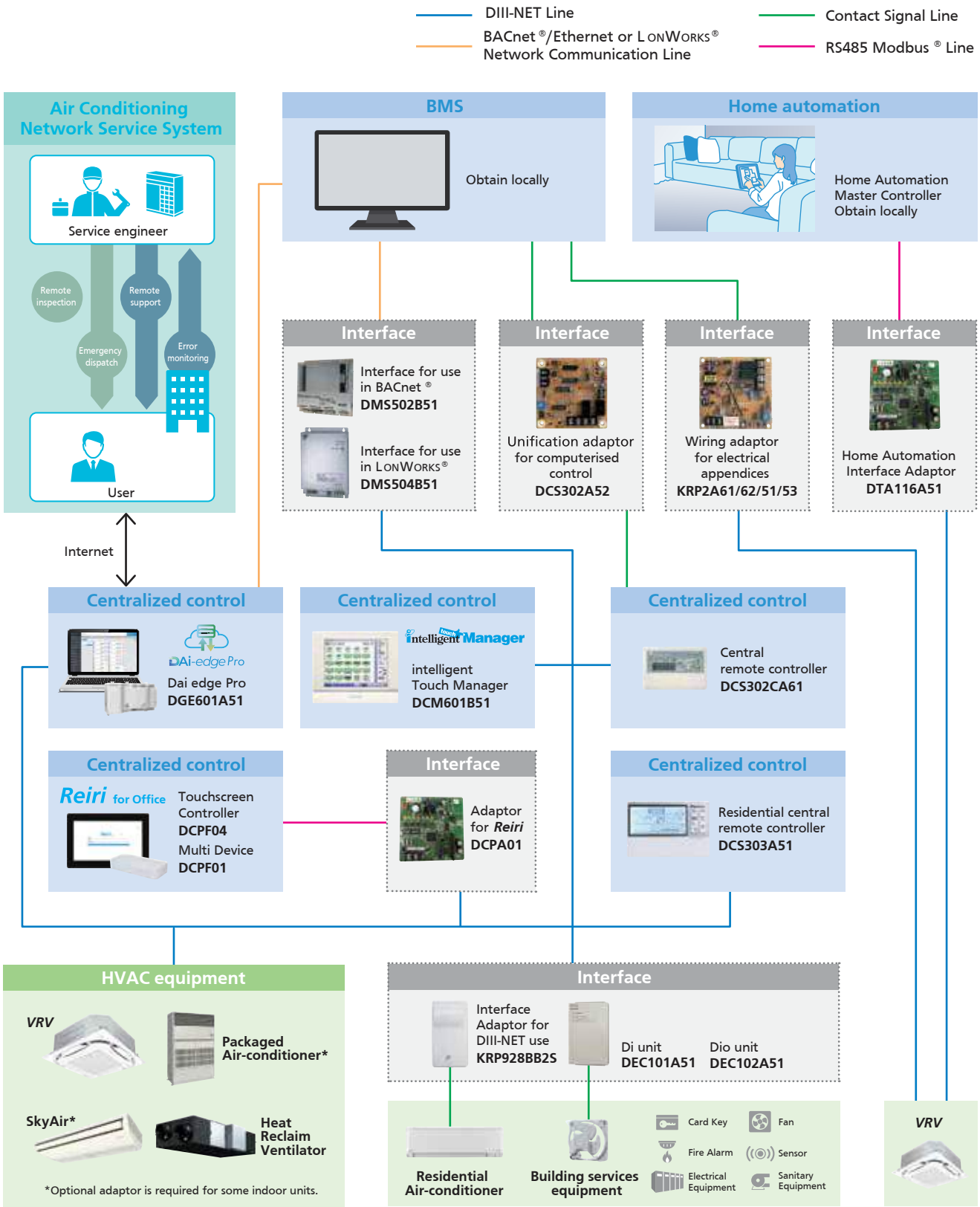
Max.
16
groups

~1,000 m ²
~5,000 m ²
~10,000 m ²
~15,000 m ²
Scale

# Control Systems

VRV α™

## Integrated system overview




Caution: Limitation may apply to some models and functions. Please contact your local sales office for details.
Consultation is necessary before employing this control system. Please contact your local sales office before making a purchase.

Note: BACnet® 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. Modbus® is a registered trademark of Schneider Electric S.A.

# Control Systems

## Individual Control Systems for VRV Indoor Units

### Navigation remote controller (Wired remote controller) (Optional)

BRC1E63 &
BRC1F61 (Only for FXEQ Series)

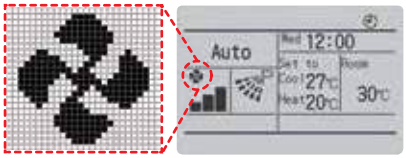
#### Clear display

- **Dot matrix display**

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**

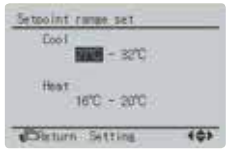
Large buttons and arrow keys enable easy operation. Basic setting such as fan speed and temperature can be intuitively operated. For other settings, just select the function from the menu list.

- **Guide on display**

The display gives an explanation of each setting for easy operation.

#### Energy saving

- **Set point 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.

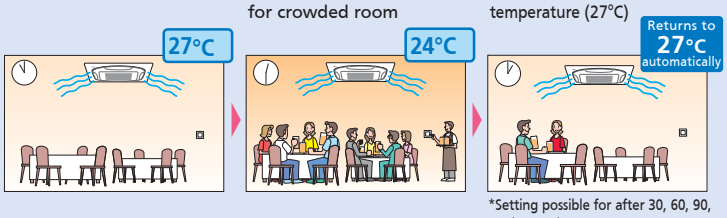



- **Set point auto-reset**
  - Even if the set temperature is changed, it returns to the preset temperature after a preset period of time.
  - Period selectable from 30 min/60 min/90 min/120 min.

- **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.

**Restaurant sample**

| Restaurant opened | Full tables at lunchtime | After 30 minutes* |
|---|---|---|
| Temperature is set to 27°C | Then is lowered to 24°C for crowded room | Automatically returns to preset temperature (27°C) |




*Setting possible for after 30, 60, 90, and 120 minutes.

# Control Systems

## Convenience

### ● Setback (default: OFF)

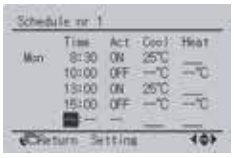
Maintains the room temperature in a specific range during an unoccupied period by temporarily starting air conditioner that was turned OFF.

| | Setback temperature | Recovery differential |
|---|---|---|
| Cooling | 33 — 37°C | -2 — -8°C |

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 turns OFF.

### ● Weekly schedule

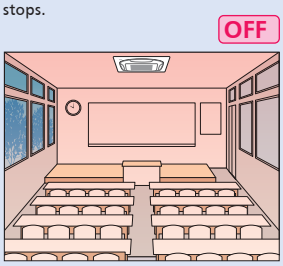
- Five actions per day can be scheduled for each day of the week.
- The holiday function will disable schedule timer for the days that have been set as holiday.
- Three independent schedules can be set (e.g. summer, winter, mid-season).




**College classroom sample** (a summer Monday case)

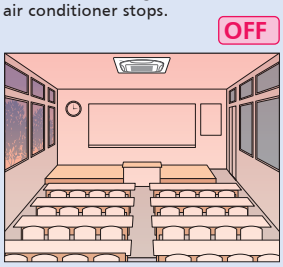
**1) 8:30 ON**
The first period starts and the air conditioner starts the cooling operation.

**2) 10:00 OFF**
In the second period, the classroom is unoccupied and the air conditioner stops.




**3) 13:00 ON**
When the third period starts, operation starts again.

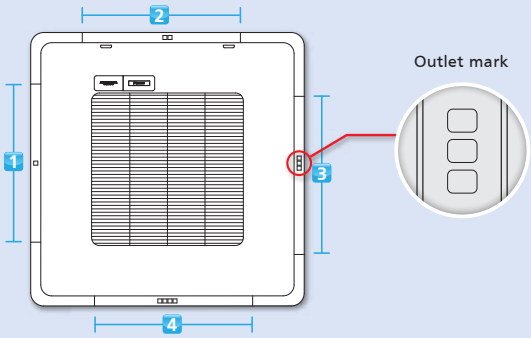
**4) 15:00 OFF**
After the third period, the classroom becomes vacant again and the air conditioner stops.

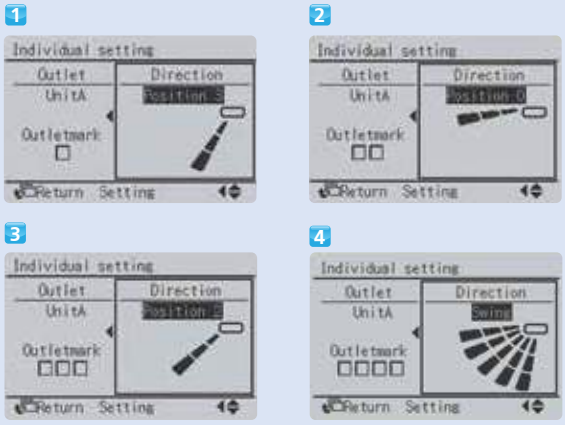



## Comfort

### ● Individual airflow direction (*1)

Airflow direction of each of the four air outlets can be controlled individually.
(Positions 0 to 4, Swing, and No individual settings are selectable).




### ● Auto airflow rate (*2)

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

*1 Only available for VRV 4-Way Flow Ceiling Suspended type FXUQ-A series.
*2 Only available for VRV 4-Way Flow Ceiling Suspended type FXUQ-A series.

# Control Systems

## Individual Control Systems for VRV Indoor Units

### Stylish remote controller (Option) - Madoka

BRC1H63W (White)

BRC1H63K (Black)

A complete redesigned controller focused to enhance user experience

reddot design award

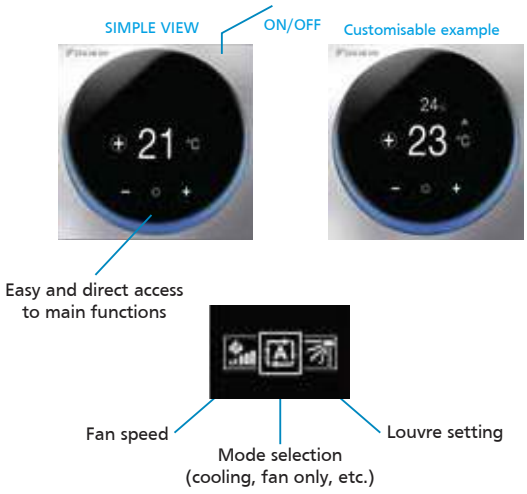
For More information 'Scan Me'

### Product Features

- Combines refinement and simplicity.
- Echoes the distinct blue circle and simplicity of design.
- Two attractive colours to match any interior.
- Compact, measures only 85 x 85 mm.

### User-friendly interface

- Just three buttons and a large-figure display.
- Customisable display.
- Direct access to basic functions (ON/OFF, Operation mode, temperature setting, Airflow rate, Airflow direction).



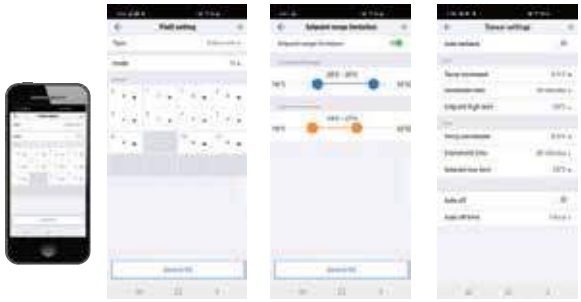

### Easy setting via Bluetooth App with smartphone (for Installer/Facility Manager)

### Keep hotel room comfortable

- Improved setback function by setting the lower temperature limit in cooling mode.

### Shorter installation time

- Easy to create multiple remote control and field settings via App.
- Prepare a setting in advance at the office and immediately send it to the on-site remote controller.
- Save and reuse settings.



<App screen image>

# Control Systems

## Stylish remote controller (Option)

BRC2E61

## 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 preference.

- ON/OFF
- Operation mode
- Temperature setting
- Airflow rate (5-step & Auto)*
- Up and down airflow direction (5-step & Swing)*
- ON/OFF timer

### Intuitive design

- By using pictograms, the user- friendly interface enables convenient and easy operation.

### Compact size

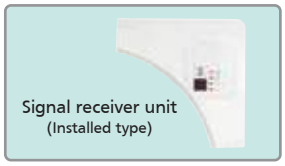
- Measuring only 85 x 85 mm, the new remote controller is extremely compact and complements any interior design.

## Wireless remote controller (Option)

Signal receiver unit
(Installed type)

- The same operation mode and setting as with wired remote controllers are possible.
  *Individual airflow direction, auto air-flow rate and sensor control can be set only via wired remote controller BRC1E62. They cannot be set via other remote controllers.
- A compact signal receiver unit (separate type) to be mounted into wall or ceiling is included.
- A signal receiver unit (installed type) for a Ceiling Mounted Cassette (Round Flow, Compact Multi Flow, Double Flow) type, Ceiling Suspended Type and Wall Mounted type is mounted into the Indoor unit.

Signal receiver unit can be installed on the panel.
Ex. Ceiling Mounted Cassette (Round Flow) type




*Wireless remote controller and signal receiver unit are sold as a set.
*Refer to page 90 for the name of each model.

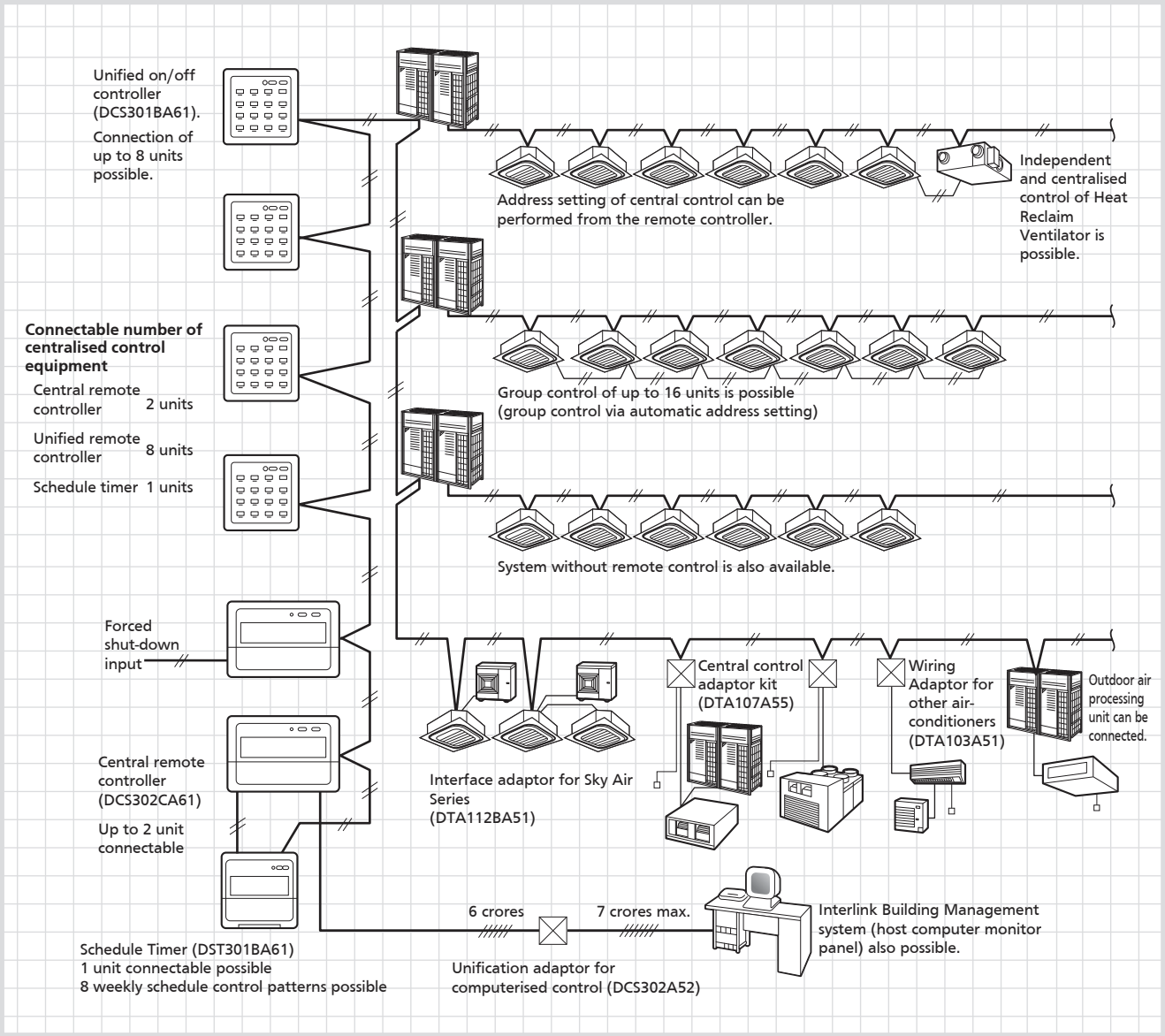
## Wide variation of remote controller for VRV indoor unit

| | FXFQ-AVM FXFQ-S | FXZQ | FXCQ | FXUQ | FXEQ | FXDQ | FXMQ | FXHQ | FXAQ | FXL(N)Q |
|---|---|---|---|---|---|---|---|---|---|---|
| **Navigation remote controller** (Wired remote controller) BRC1E63 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| **Wired remote controller** (BRC2E61) | | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| **Wireless remote controller*** | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

# Control Systems

## Centralised Control Systems for VRV Indoor Units

- Up to 64 groups of indoor units (128 units) can be centrally controlled.
- Optional controllers for centralised control can be combined freely, and system can be designed in accordance with building scale and purpose.
- System integrated with various air conditioning peripheral equipment such as Heat Reclaim Ventilator is easy.
- Wiring can be run up to a length of 2km, and adapts easily to large-scale system expansion.




- Certain indoor units limit the functions of some control systems.

# Control Systems

## Residential remote controller (Optional)

DCS303A51

**Max. 16 groups of indoor units can be easily controlled with the large LCD Panel.**

- Max. 16 group (128 indoor units) are controllable.
- Backlight and large LCD panel for easy readability.
- ON/OFF, temperature setting and scheduling can be controlled individually for indoor units.
- All indoor units can be turned on or off at once with "ALL" button.
- Outside temperature display.

*For residential use only. Cannot be used with other centralised control equipment.

## Central remote controller (Optional)

DCS302CA61

**Max. 64 groups (zones) of indoor units can be controlled individually same as LCD remote controller.**

- Max. 64 group (128 indoor units) are controllable.
- Max. 128 group (128 indoor units) are controllable by using 2 central remote controllers, which can be controlled from 2 different places.
- Zone control.
- Malfunction code display.
- Max. wiring length of 1,000m (Total: 2,000m).
- Airflow volume and direction can be controlled individually for indoor units in each group operation.
- Ventilation volume and mode can be controlled for Heat Reclaim Ventilator.
- Up to 4 ON/OFF pairs can be set per day by connecting a schedule timer.

## Unified ON/OFF controller (Optional)

DCS301BA61

**Max. 16 groups of indoor units can be operated simultaneously/individually.**

- Max. 16 group (128 indoor units) are controllable.
- 2 remote controllers can be used to control 2 different places.
- Operating status indication (Normal Operation, Alarm).
- Centralised control indication.
- Max. wiring length of 1,000m (Total: 2,000m).
- Compact size casing (Thickness: 16mm).

## Schedule timer (Optional)

DST301BA61

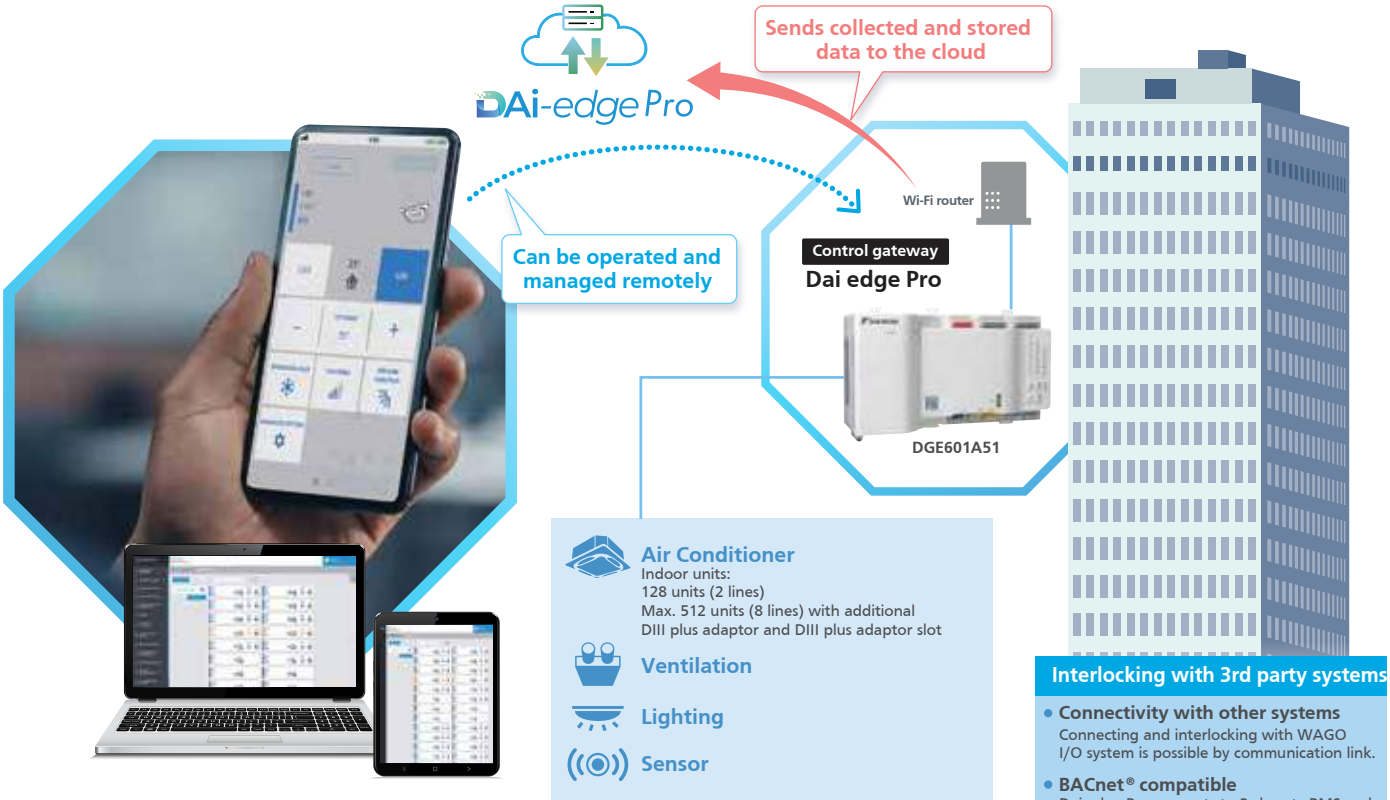
**Max. 128 indoor units can be operated as programmed schedule.**

- Max. 128 indoor units are controllable.
- When used in combination with a central remote controller, a maximum of 8 weekly schedule patterns can be set, while the central controller can be used to select desired zones. Up to 2 ON/OFF pairs can be set per day.
- Max. 8 hours back-up power supply.
- Max. wiring length of 1,000m (Total: 2,000m).
- Compact size casing (Thickness: 16mm).

# Control Systems

## New Cloud-based HVAC management service

Dai edge Pro is an all-in-one, cloud-based management service that offers real-time control and monitoring, advanced analytics, and customized support to address HVAC lifecycle concerns.

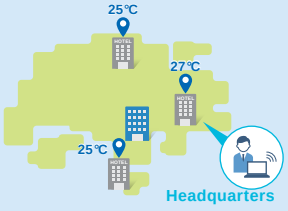



**Easily controlled from any device** *1

Note:
*1 Operation is only available when the control gateway is connected to the Internet.

### Remote monitoring and control

- Multi-Device Support
- Multi-Site Management




- Layout View

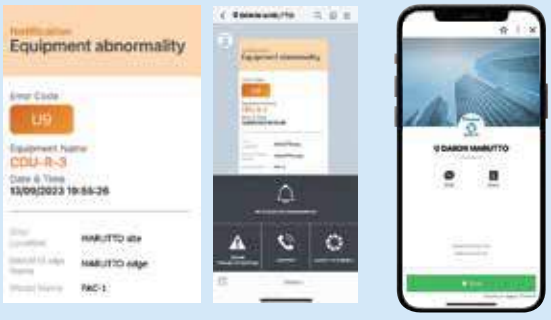
- Map View

### Centralized control

- Interlocking Control of Devices
- User Administration Function
- Schedule Control

### Peace of mind service maintenance

- Error Notification Email




- Remote Emergency Operation (Option)

### Optimize energy usage

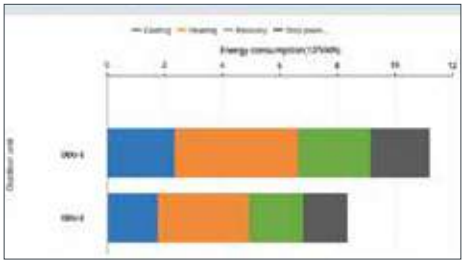
- Energy Visualization
- Demand Control (Option)
- Operation Data Output Function
- PPD Function (Option)
- Energy-Saving Simulation

# Control Systems

## Energy Visualization

Provides graphs of energy consumption to uncover inefficient operation

### Energy consumption patterns



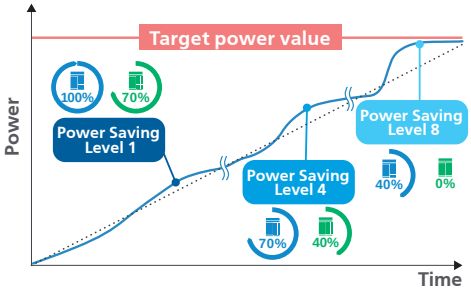
## Demand Control (Option)

Reliably cuts power peaks without sacrificing comfort

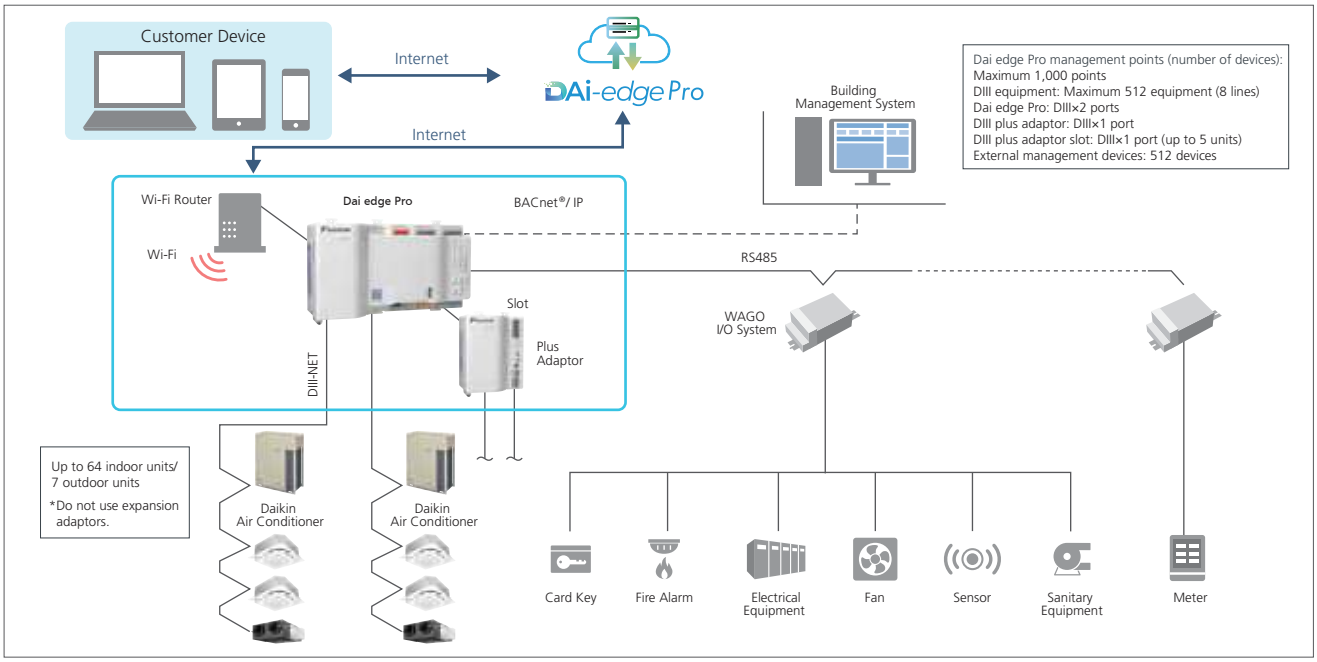
**As the power saving level increases, the power consumption reduction effect also increases.**

| | |
|---|---|
| Control power consumption with three measures | • Thermo-Off of indoor unit<br>• Set temperature shift of indoor unit<br>• Outdoor unit capacity limit |

**Demand control image**




### Dai edge Pro System Overview




### Dai edge Pro (standard specifications)

| Common Name | Control gateway | Plus adaptor (sold separately) | Slot (sold separately) |
|---|---|---|---|
| Item Name | Dai edge Pro | DIII plus adaptor | DIII plus adaptor slot |
| Model Name | DGE601A51 | DGE601A52 | DGE601A53 |
| Power Supply | AC100-240V 50/60Hz | AC100-240V 50/60Hz | Power supply from DIII plus adaptor |
| Power Consumption | 23W | 23W | — |
| Usage Environment | -10 to 50°C 85% or less | -10 to 50°C 85% or less | -10 to 50°C 85% or less |
| External Dimensions (Width x Height x Depth) | 230 × 146 × 81.2 (mm) | 97.2 × 146 × 81.2 (mm) | 25.2 × 146 × 64.2 (mm) |
| Weight | 0.97kg | 0.69kg | 0.13kg |

* Refer to the Dai edge Pro individual catalogue for details.

# Control Systems

VRV α™

## Advanced Control Systems for VRV systems

intelligent touch Manager

DCM601B51

Various types of equipment in a building can be controlled by a single controller.

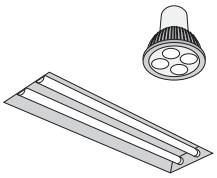
### One touch selection enables flexible control of equipment in a building.

#### 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).

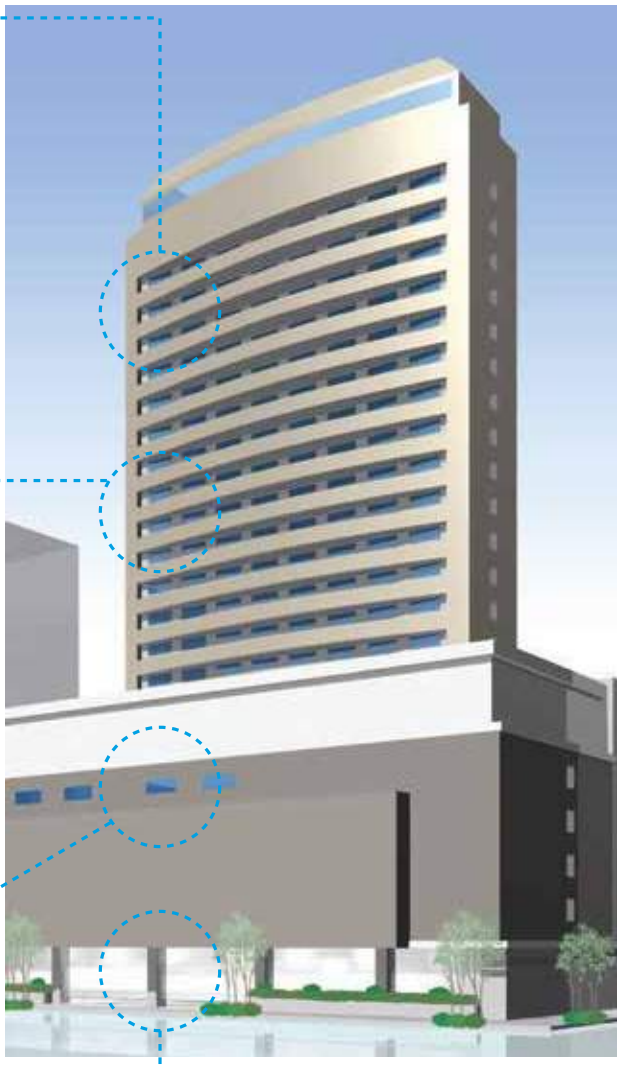
#### Lighting control DALI-compatible

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 controlled.

Pump

Fan

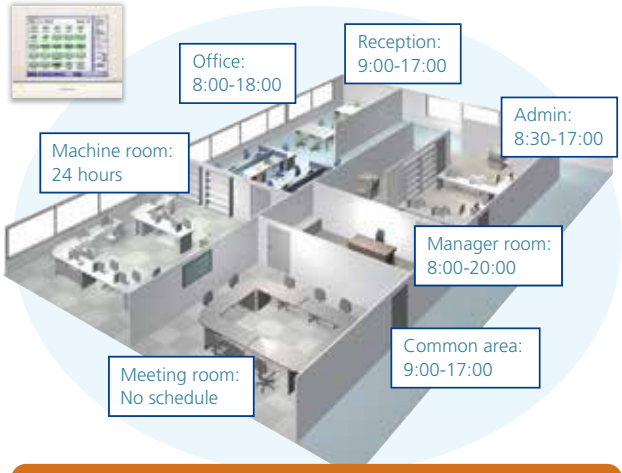
# Control Systems

## 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.

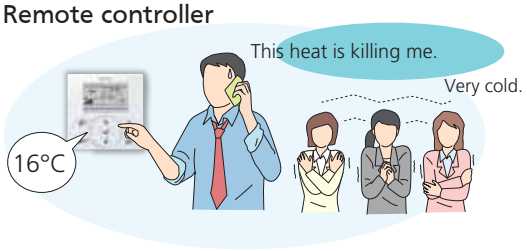
#### Schedule the operation time for each application.



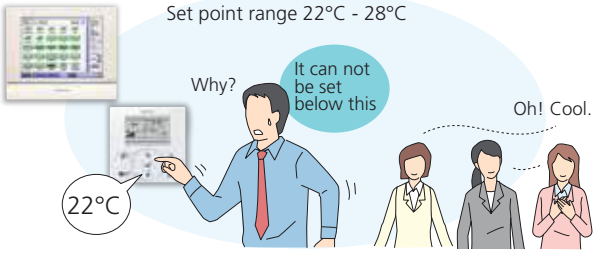

**Setting the I-demand function and nighttime quiet operation function is also possible.**

#### Define the setpoint range that users can change.

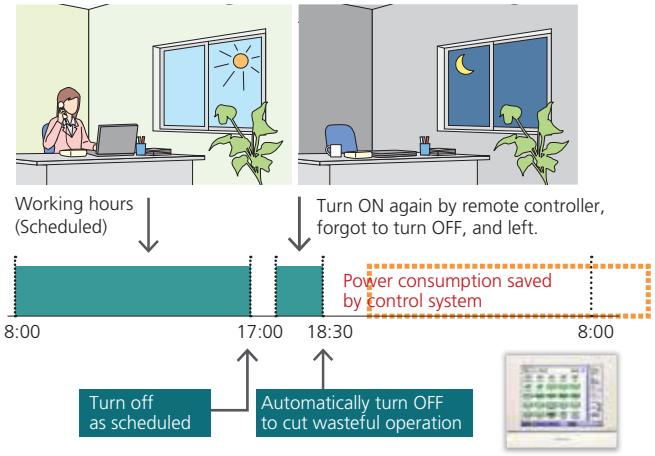
With Remote controller



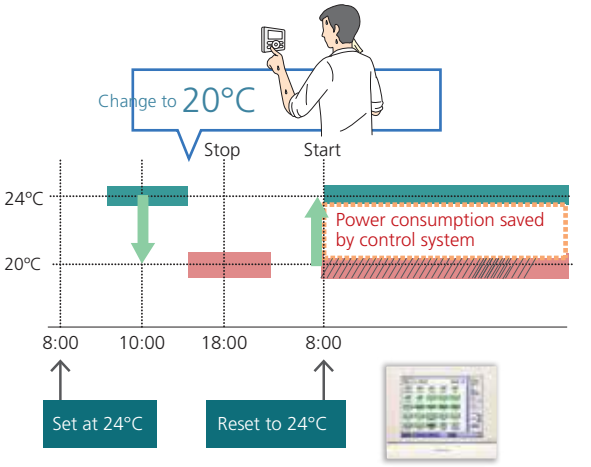

With Control System




#### Turn the unit OFF if a user didn't.



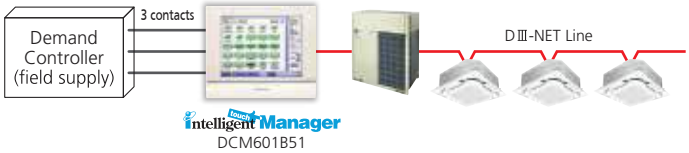

#### Reset setpoint regularly.




#### External contact demand control function

This function automatically controls outdoor and indoor unit capacity based on contact signals sent from demand controller (field supply) etc. to save power consumption during peak hours.

- You may set 3 levels that can be switched by ON/OFF signal of 3 contacts
- Control settings are pre-set for each level
- Outdoor unit: I-demand function for peak power limit
  Indoor unit: Set temperature shift, Forced thermostat OFF



# Control Systems

## Lighting control (Option)

### In addition to switching lights on and off, advanced lighting control, such as illuminance adjustment, can be achieved

**Connection to DALI-compatible lighting control system**

**DALI-compatible**

Please contact your local sales office for details.

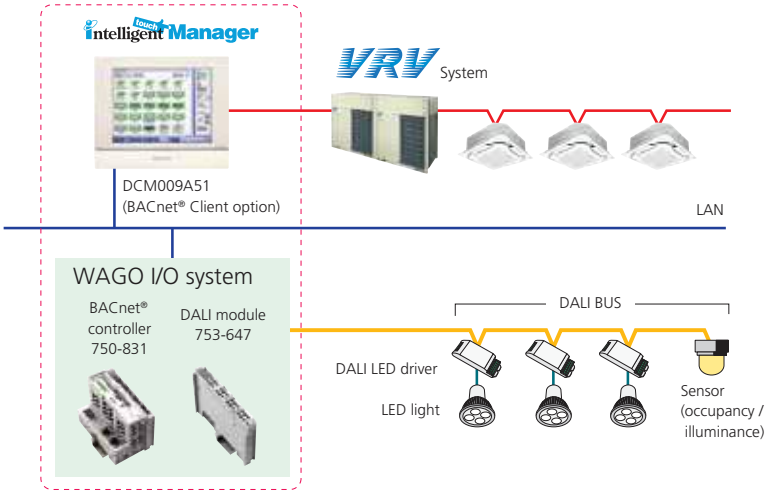
Simple wiring (daisy chain) enables management of LED lighting by the ***intelligent Touch Manager*** .
Various air conditioning and lighting control is enabled through the interlock with occupancy sensors and illuminance sensors.

**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 efficiently controlled to promote energy conservation and cost reduction!



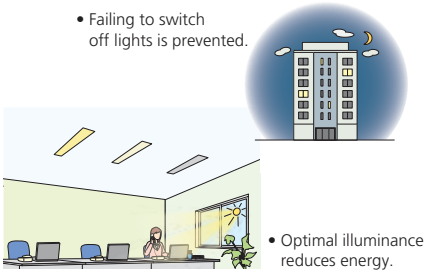

### Overview of control

- 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) can be connected to a single DALI module.
- DALI BUS simplifies wiring and setting work by daisy chain wiring and automatic address setting.

### Easy maintenance and energy saving by lighting control

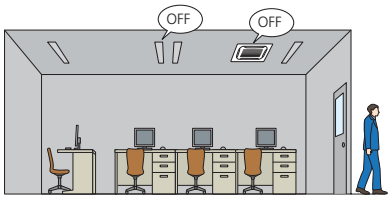
**Case 1**

Switch-on / switch-off and illuminance are controlled based on a schedule to cut wasteful power consumption.



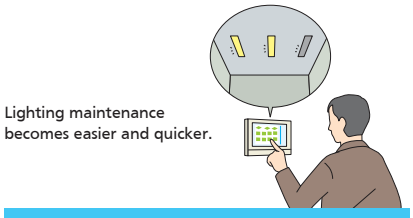

**Case 2**

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.




**Case 3**

Lighting abnormalities (e.g. burned-out bulbs) can be checked on the ***intelligent Touch Manager*** screen.




**The layout screen enables quick identification of specific locations.**

# Control Systems

## Tenant management

### Reporting the power consumption of *VRV* system for each tenant (PPD* Option)

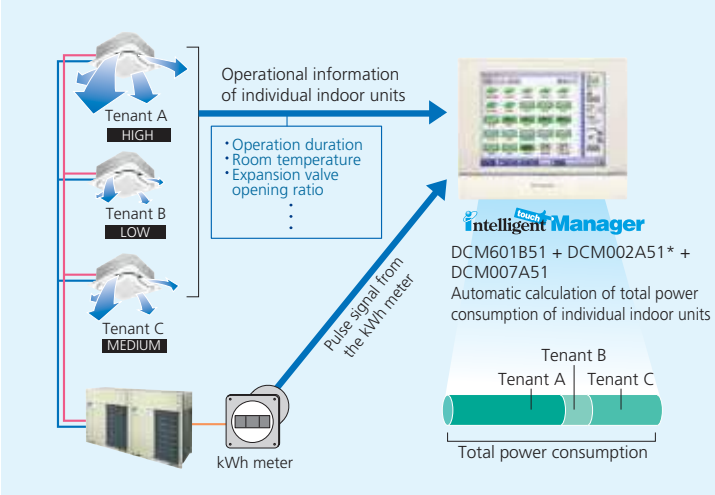
With the PPD function, power consumption can be calculated for each indoor unit (Option)

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.



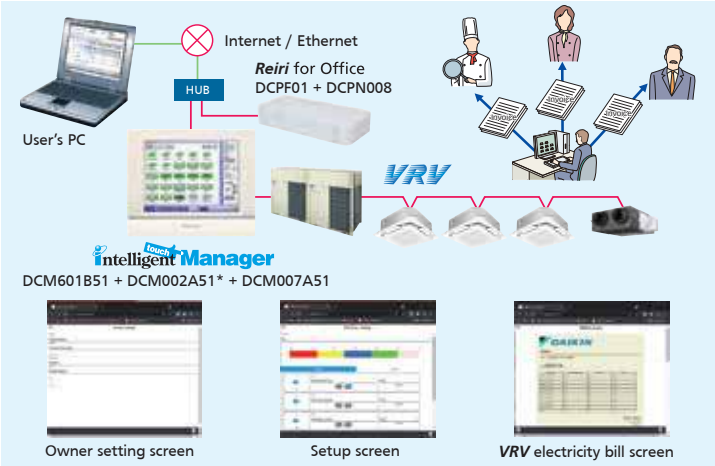

*PPD (Power Proportional Distribution) is Daikin 's proprietary calculation method.

### Air conditioning bills can be issued by one click (PPD* Option)

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 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)



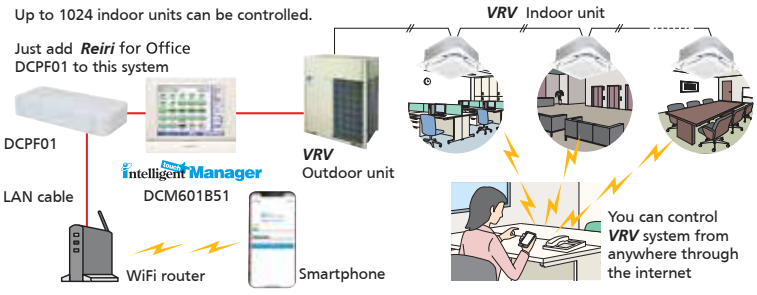

*PPD (Power Proportional Distribution) is Daikin 's proprietary calculation method.

### Effective service functions offered to tenants

Smartphone will be a remote controller of ***VRV*** system (Option)

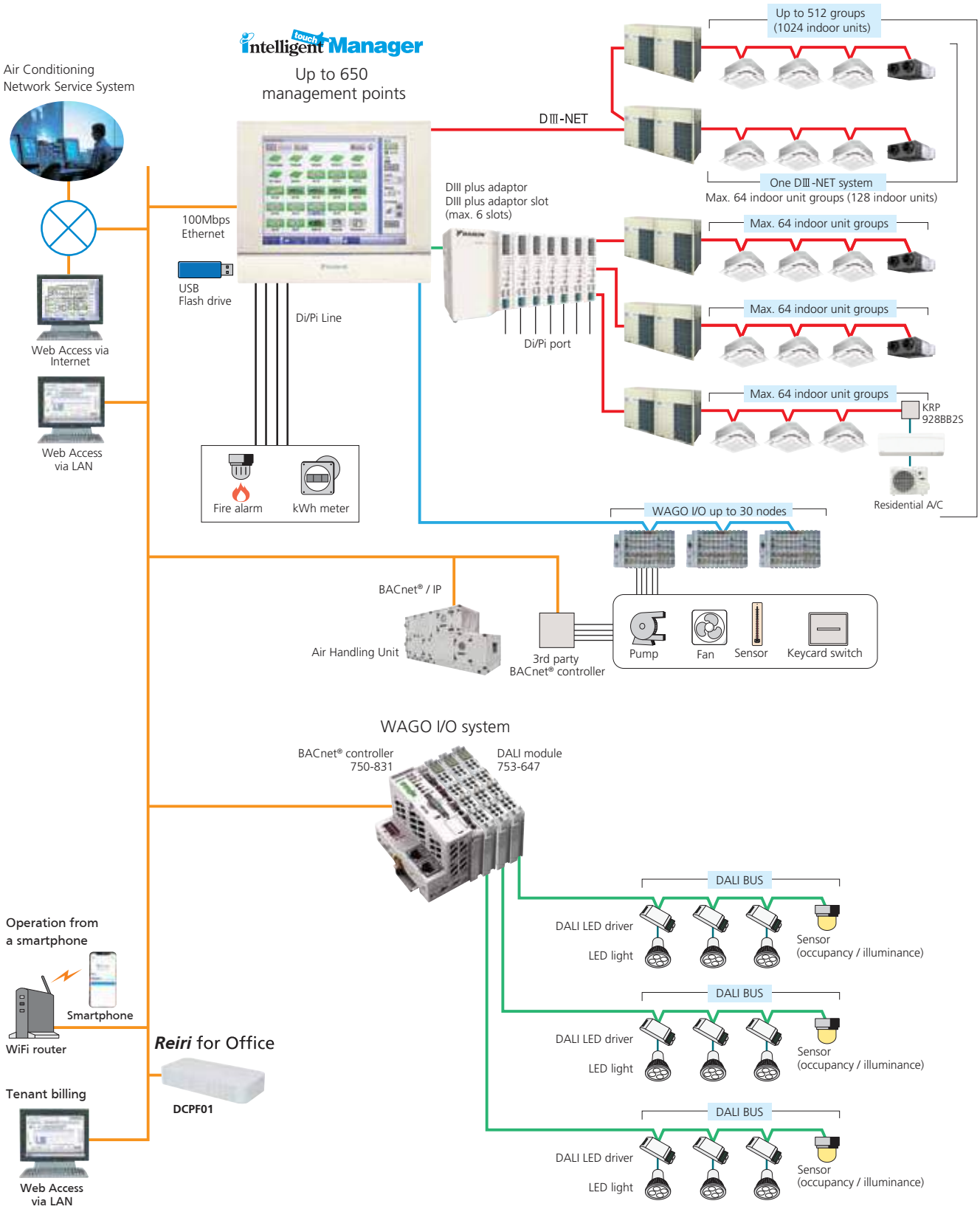
Users can operate and check the status of ***VRV*** system from their smartphones via the internet.
It is not necessary to move where a remote controller is located with this feature.
***VRV*** system in other rooms can be operated, and their status can be checked.
It is also possible to check if air conditioners in other rooms remain switched on etc., helping achieve energy saving.

For buildings ***VRV*** Smartphone Remote Controller



# Control Systems

## intelligent Touch Manager system overview



# Control Systems

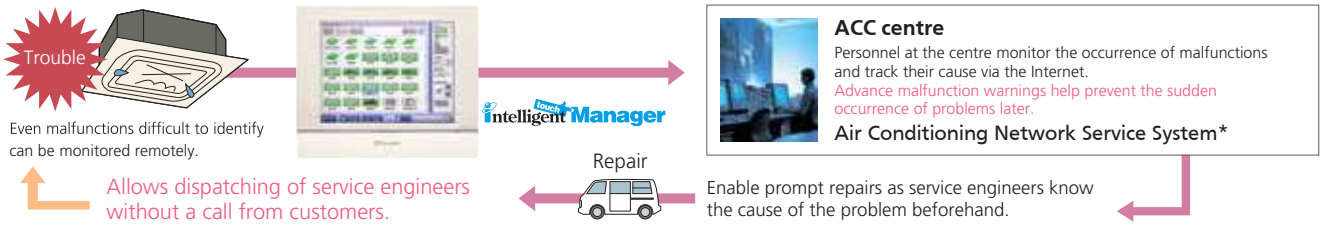
## Air conditioning network service system

### 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 customers with additional peace of mind.

### 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.




*Because of restrictions in applicable areas and release times, please consult a Daikin representative separately for details.

## Daikin offers a variety of control systems

### Connect *VRV* system to your BMS via BACnet® or LonWorks®

Compatible with BACnet ® and LonWorks ®, the two leading open network communication 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

BACnet®

Seamless connection between ***VRV*** system and BACnet® open network protocol.

**DMS502B51** (Interface for use in BACnet®)

LonWorks®

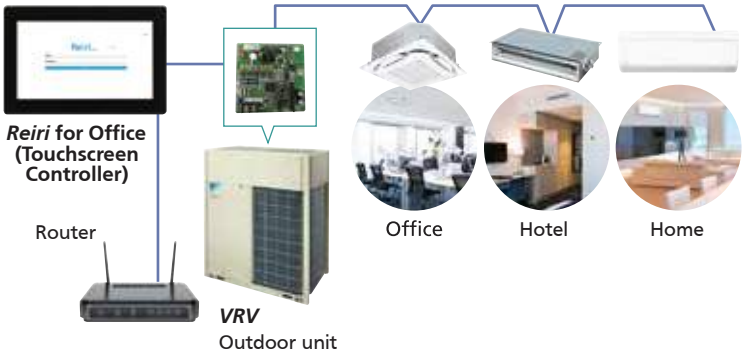
Facilitating the network integration of ***VRV*** system and LonWorks®

**DMS504B51** (Interface for use in LonWorks®)

Notes: 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.

## Specialised solution for office, home and hotel with *Reiri* Series

Catering to different applications, ranging from 10 indoor units to 2048 indoor units




| | |
|---|---|
| For Office | Building Automation System |
| For Home | Smart Home Solution |
| For Hotel | Air Conditioning Guestroom Interlocking Management |

***Reiri*** **for Office**
**(Touchscreen Controller)**

- ***Reiri*** **for Office**
- ***Reiri*** **for Office (Controller Extension)**
- ***Reiri*** **for Office (Multisite Extension)**
- ***Reiri*** **for Home**

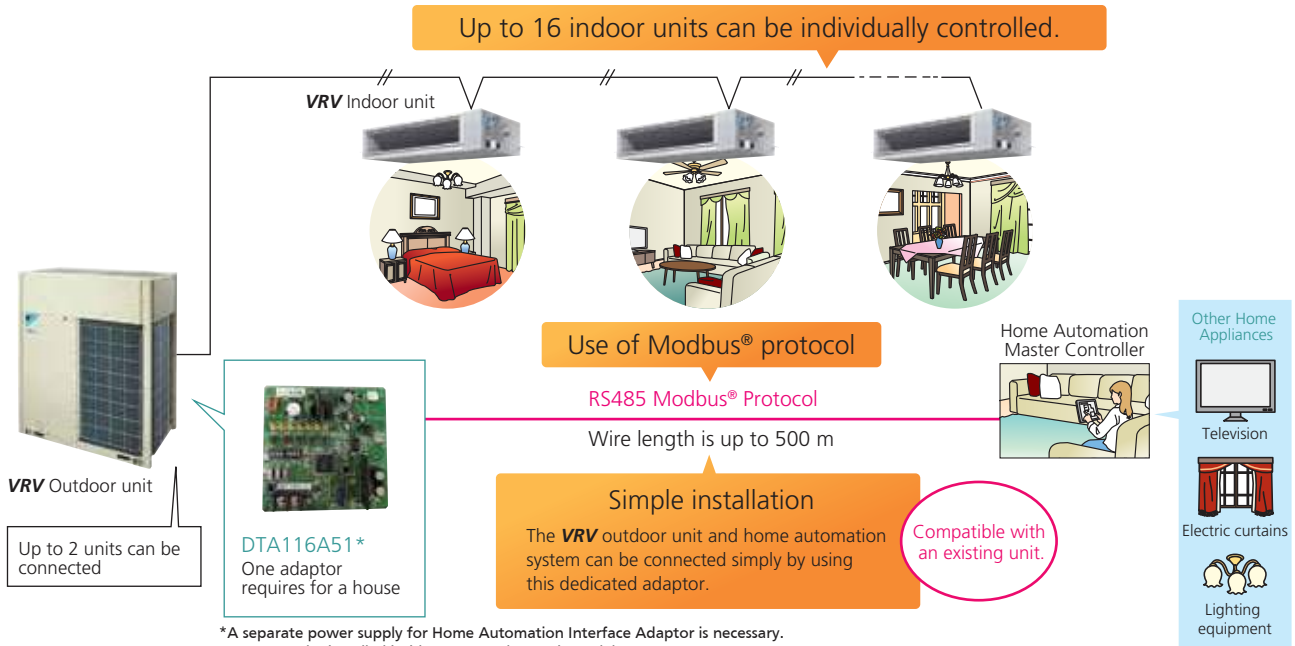
- ***Reiri*** **for Home (Lite Version)**
- ***Reiri*** **for Hotel**
- ***Reiri*** **for Resort**

# Control Systems

## Home automation interface adaptor

### The *VRV* system can be operated from the home automation system.

Image to use home automation interface adaptor DTA116A51




*A separate power supply for Home Automation Interface Adaptor is necessary.
It may not be installed inside some outdoor unit models.

### 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 capabilities | Indoor unit capabilities such as operation mode, fan control, setpoint HV can be retrieved. |

* Modbus ® is a registered trademark of Schneider Electric S.A.

# Control Systems

## Complete control system for *VRV* systems

# *Reiri*

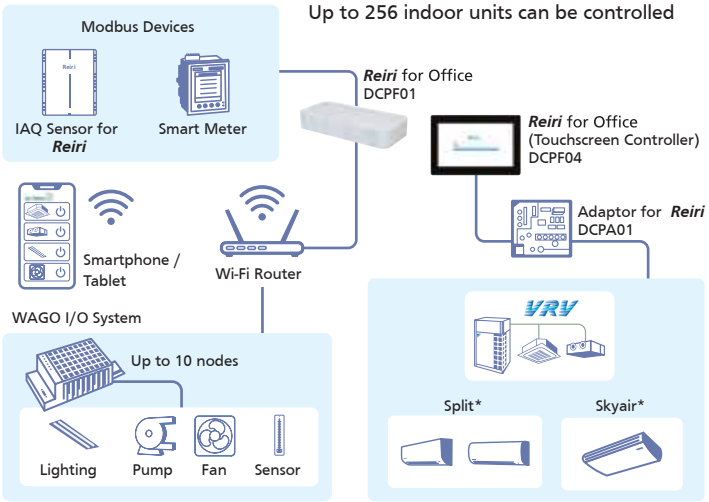
High value smart solution creation for different application

### Office Air Conditioning Solution
### (*Reiri* for Office :DCPF01 / *Reiri* for Office (Touchscreen Controller) :DCPF04)

A simple office buildings air conditioning solution with a secured, cloud enabled platform, allowing greater ease of control and control while being energy-efficient. The flagship model DCPF04 offers the smart control system with a dedicated touch panel.

**Intelligent Building Solution**

- Easy to install and configure with dedicated Configuration Mobile App for installers.
- Remote control operation through mobile App from anywhere.
- Energy management through P.P.D. billing, Energy graph and real time energy display function
- IAQ Management via real time monitoring and trend graph for keeping record.
- Effective Air conditioning usage with setpoint range limitation, set back function, remote control prohibition.




*Additional Interface Adaptors may be required.

### Specifications

| Category | Function | Description |
|---|---|---|
| Monitoring & Control | 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[1] |
| | Remote control prohibition | Individually prohibit operation of each local remote-control function |
| | Setpoint range limitation | To limit setpoint range for each indoor unit management point |
| Automatic Control functions | Automatic changeover [1] | Number of changeover groups: 100 |
| | Off timer | Off timer duration can set from 5min to 120min with every 5min interval |
| | Setback [1] | Setback setpoint can selected within 24-35°C in cooling mode and 5-20°C in heating mode. |
| | Schedule | Number of programmes: 100; Up to 20 actions can be registered per pattern. |
| | Interlock [1] | Interlock operation depending on equipment status |
| Data Management | History, Report [1] | Operation data (latest information and operation report) and error report on daily/monthly basis. |
| | Trend graph [1], energy graph [1] | Chart on environmental changes and energy (and other meter) values. |
| | Real time energy display [1,2] | Daily/Monthly real time energy consumption status on screen. |
| P.P.D Billing [1,2] | | Generate Bill with Power Proportional Distribution data retrieved from the system. |
| System Setting | | Language, Password setting, Account setting, Notification, Email Notification |

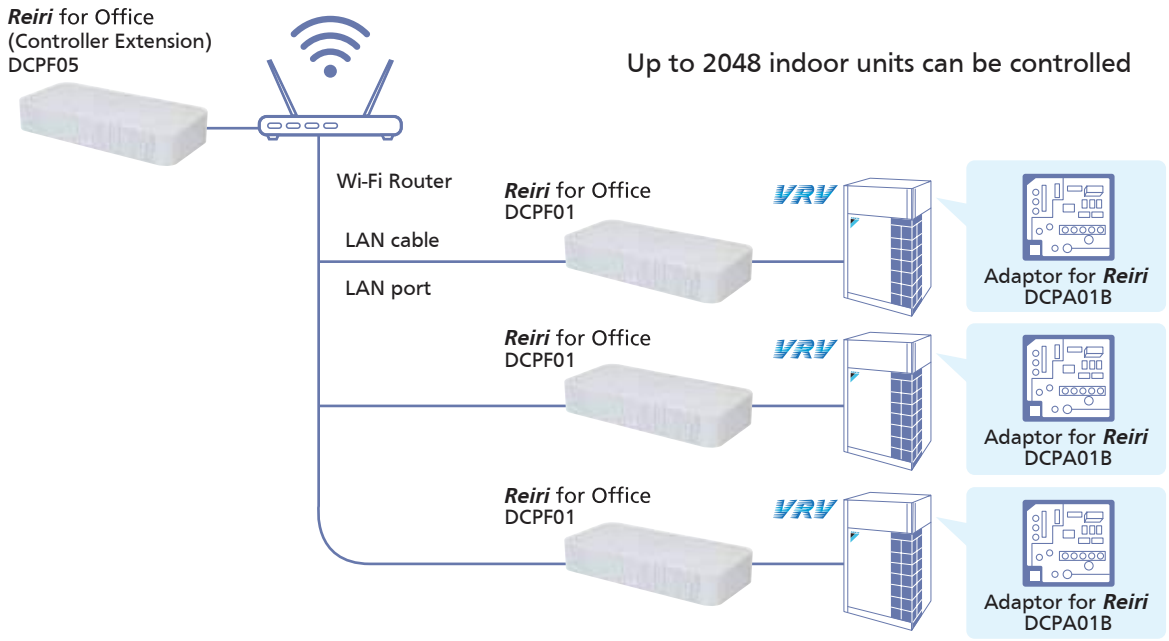
[1] Optional software for *Reiri* for Office, DCPF01
[2] Optional software for *Reiri* for Office (Touchscreen Controller), DCPF04

# Control Systems

## Office Expanded Solution (*Reiri* for Office (Controller Extension) :DCPF05)

A dedicated control solution for large scale office buildings through centralised control of multiple ***Reiri*** for Office controller on a single secured and cloud-enabled platform.

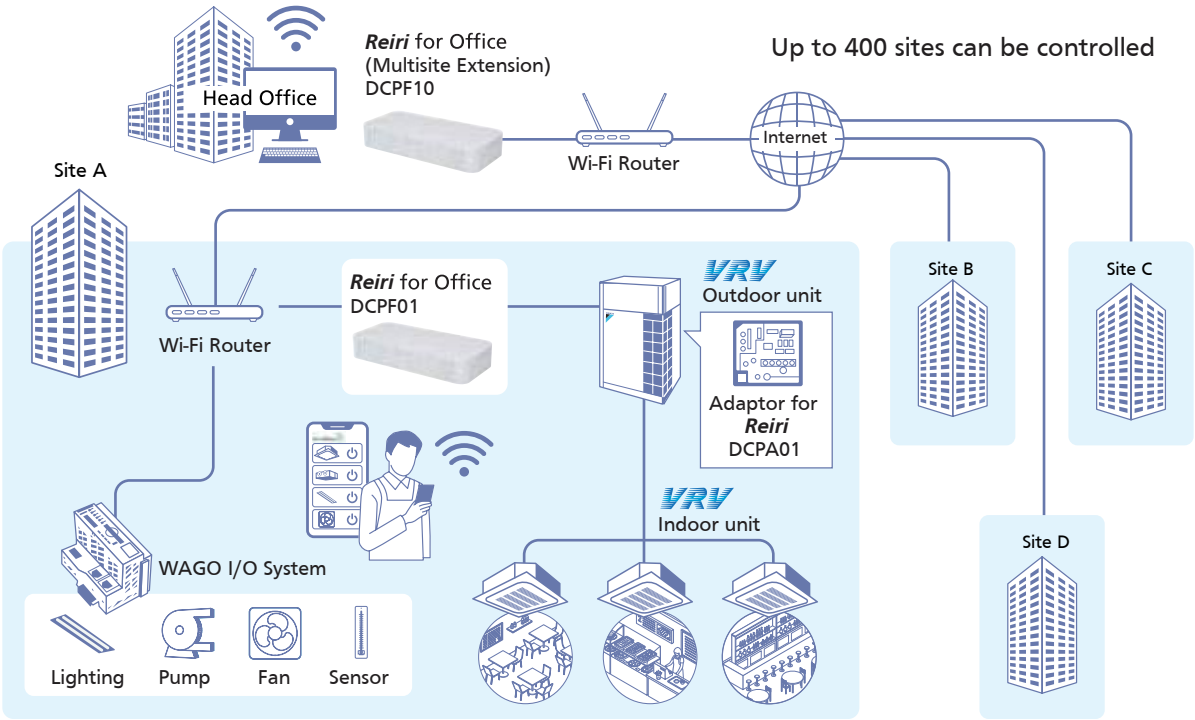
Note: P.P.D. & Tenant Billing Management and Real-Time Energy Monitoring (R.E.M.) are offered as optional software.




## Multi Site Management Solution (*Reiri* for Office (Multisite Extension) :DCPF10)

Centralised control and remote access for all devices in multiple buildings across different locations conveniently located on one secured platform.

Note: Multi-site Branch Expansion is offered as optional software.



# Control Systems

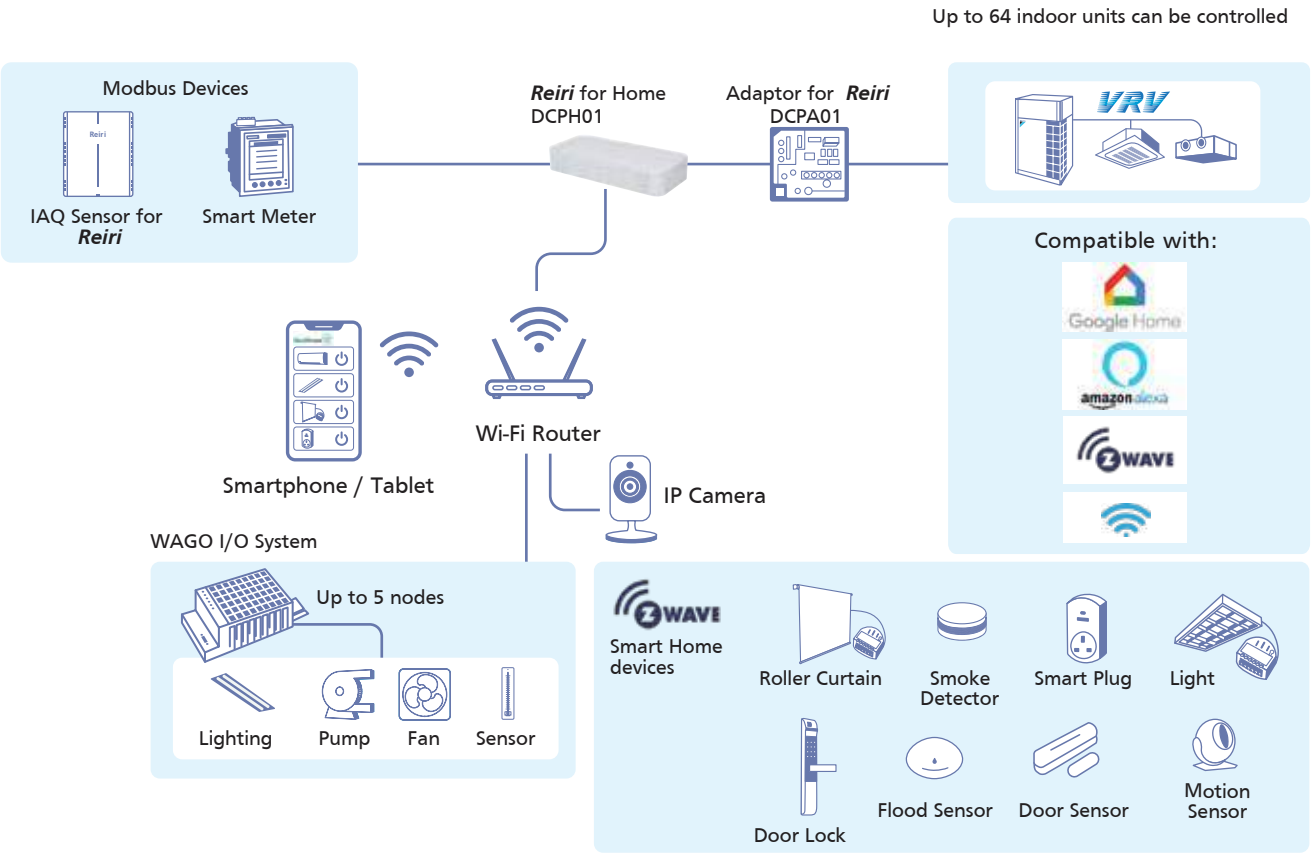
## Smart Home Solution (*Reiri* for Home :DCPH01)

The complete smart home air conditioning solution for every homeowners with integration capabilities to allow ease and convenience of control for almost every smart devices

**Complete Smart Home Solution**

- Supports Zwave, WAGO, Modbus, LAN communication
- Convenience & Lifestyle
- IAQ Management
- Energy Management
- Home Security Solution
- Google Home Enabled

Note: Residential automatic control and system report is offered as optional software.

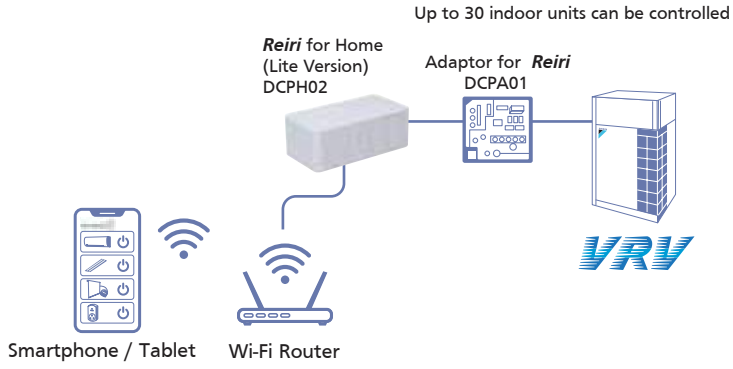



Notes: 1. Google Home and the Google Home logo are trademarks of Google LLC.
2. Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates.
3. Z-Wave® is a registered trademark of Sigma Designs and its subsidiaries in the United States and other countries .

## *VRV* Smart Centralised Control Solution ( *Reiri* for Home (Lite Version) :DCPH02)

Designed to enhance the comfort and convenience for homeowners, offering complete control of core functions in Daikin Airconditioning system remotely through app access

Note: Residential automatic control and system report is offered as optional software.



# Control Systems

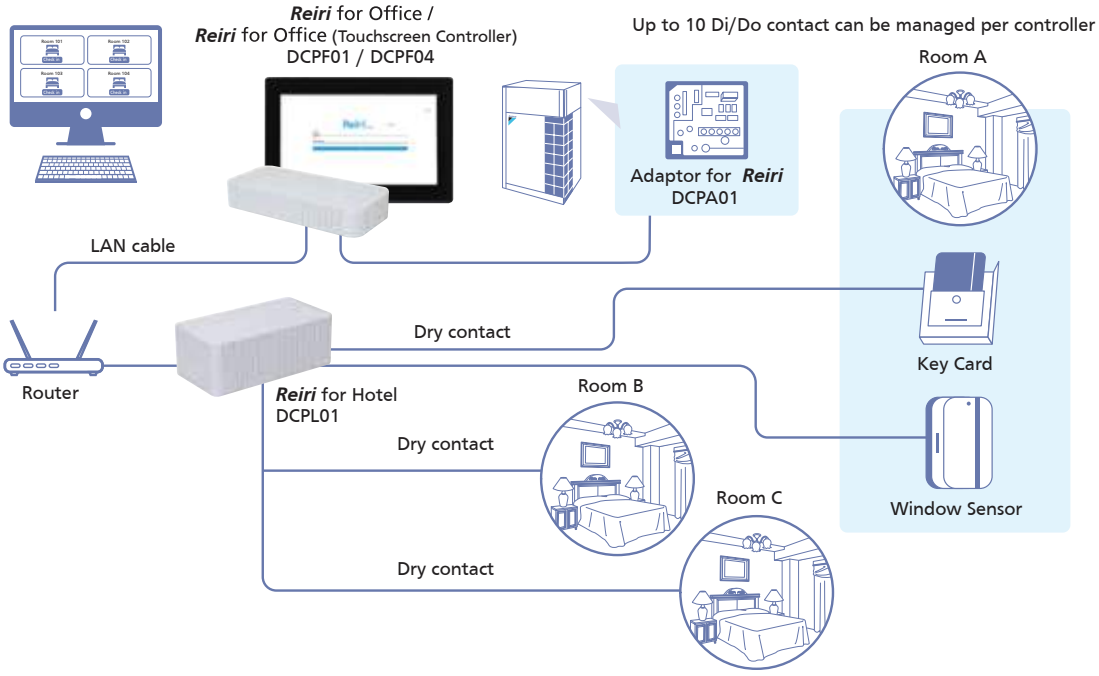
## Hotel Air Conditioning Solution ( *Reiri* for Hotel :DCPL01)

The smart hotel air conditioning solution for effective air conditioning operation that maximize guest comfort and minimize energy consumption in a hotel

### Air Conditioning Guestroom Interlocking Management

- Automatic air conditioning control based on check in/out signal, key card signal and window open/close signal

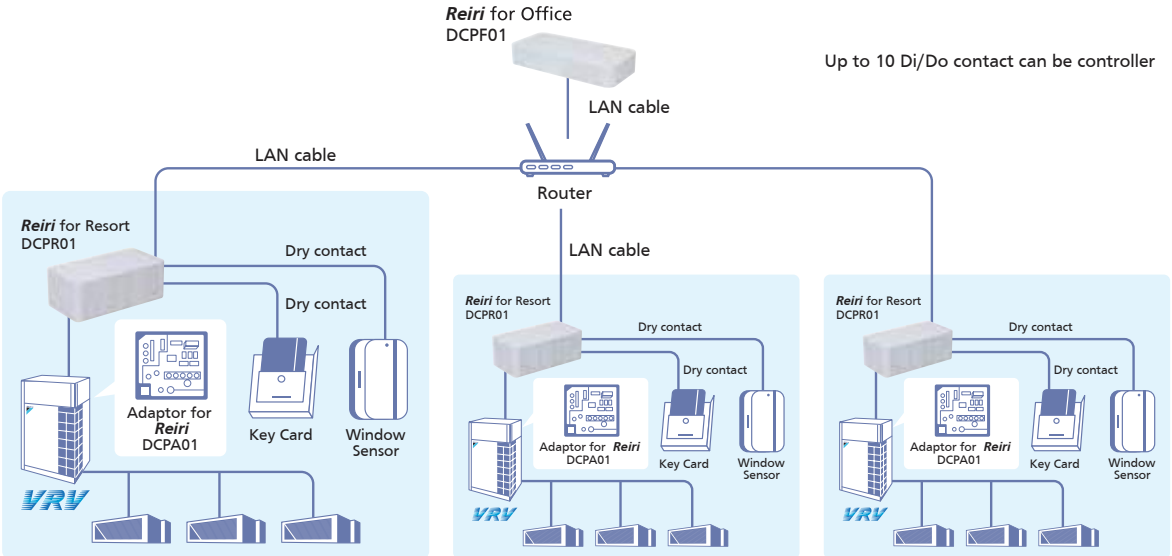
Note: The ***Reiri*** for Hotel controller has to be used with ***Reiri*** for Office / ***Reiri*** for Office (Touchscreen Controller) / ***Reiri*** for Office (Contoroller Extension) controller as building controller.




## Villa Air Conditioning Solution ( *Reiri* for Resort :DCPR01)

Designed to enhance the comfort and convenience for each villa according to use by guests

- Automatic air conditioning control based on check in/out signal, key card signal and window open/close signal
- Guest comfort



# DAi-edge

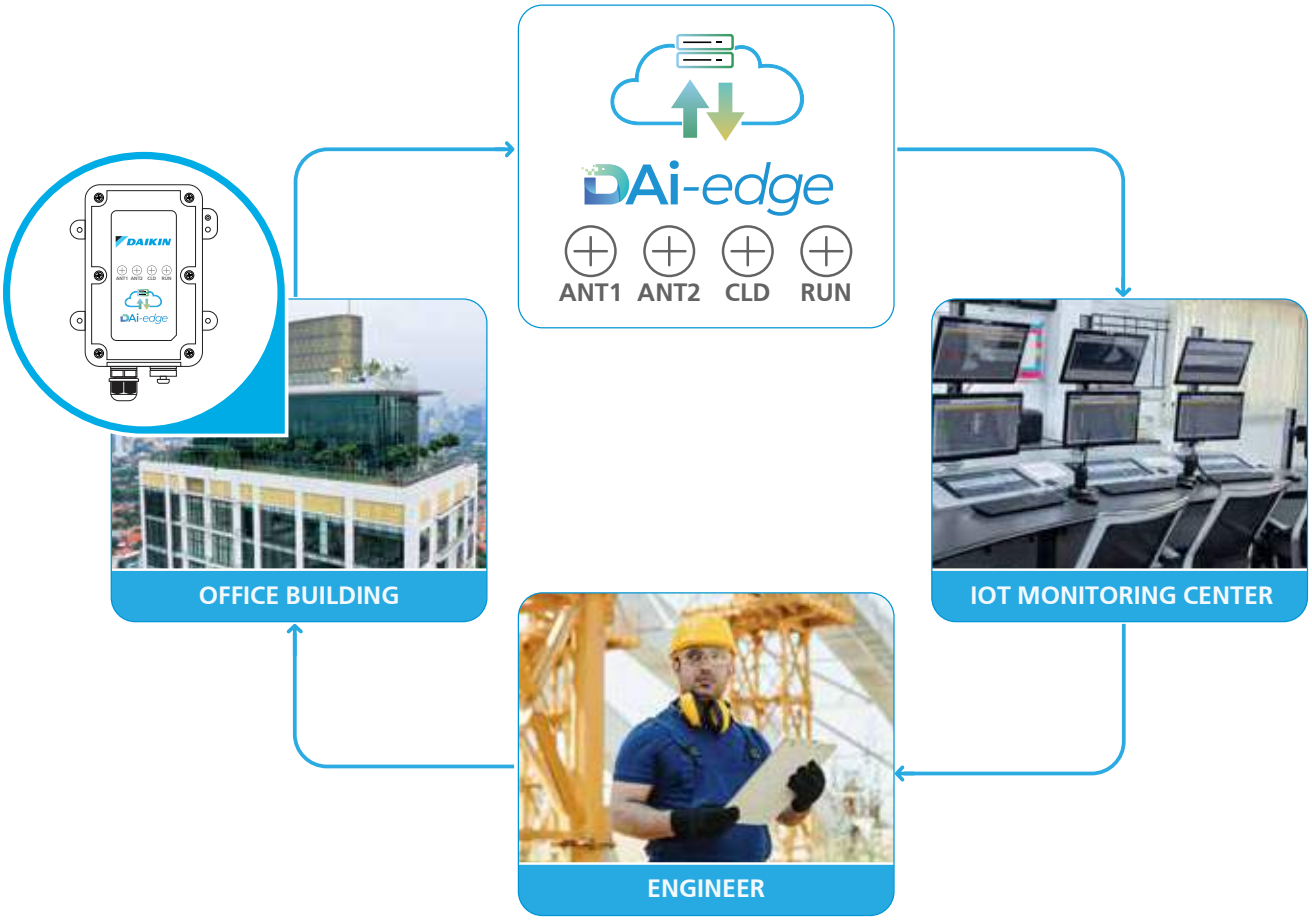
## DAi-edge Cloud Services monitor your Daikin HVAC systems 24/7 to help optimize system operation.

» Remote monitoring to help manage and diagnose system performance.

» Use diagnostic logic to notify of impending failures of key components of VRV system.

» Streamline service and maintenance for projects.

» Secure cellular communication to the DAi-edge Cloud Service using a built-in SIM card.



## Available Services Overview

| No. | Services |
|---|---|
| 1. | Remote Monitoring |
| 2. | Equipment error notification |
| 3. | Remote failure diagnosis |

| DAi-edge | |
|---|---|
| **Model** | DSE402A61 |
| **Description** | DAi-edge Cloud Communication Adaptor |
| **Maximum Connections** | 64 Indoor Units / 1 Outdoor Unit |
| **Communication to Outdoor Unit** | Proprietary |
| **Communication to Cloud** | LTE CAT. 1 communication |
| **Power** | 16VDC supplied by Outdoor Unit, less than 3W |
| **Operating Temp. Range** | -22 to 125°F (-30-52°C) |
| **Storage Temp. Range** | -22 to 158°F (-30-70°C) |
| **Operating Humidity Range** | Less than 95% RH (Non-condensing) |
| **Storage Temp. Range** | Less than 95% RH (Non-condensing) |
| **Installation Elevation** | Less than 6500 ft. (2000 m) |
| **Dimensions (W x H x D)** | 6.2" x 3.8" x 1.7" (160 mm x 96 mm x 42 mm) |
| **Weight (Mass)** | 1.0 lb. (0.46 kg) |
| **Communication Wire** | 9-33/64 ft. (2900 mm) |
| **Conversion Harness** | 0.55 ft. (170 mm) |
| **Enclosure Rating** | IP66 |
| **Cloud Services** | |
| **Compatible Browser** | Google Chrome, Safari |
| **Compatible Devices** | PC, MAC, Smartphone, and Tablet with internet connection |
| **Requires Subscription** | Yes |
| **URL** | https://dashboardvrv.daikinsensai.com/#/login |

# DAi-edge

| Service | Overview |
|---|---|
| Remote Monitoring | Daikin's DAi-edge platform offers 24/7 monitoring of VRV units, with data stored on the DAi-edge Cloud Service. This enables proactive fault detection and helps recommend optimal usage strategies to reduce electricity consumption without compromising comfort at customer sites. |
| Equipment error notification | Whenever a VRV system encounters an error, it will automatically notify the DAi-edge cloud, enabling Daikin and contractors to take prompt action for repairs. |
| Remote failure diagnosis | Daikin's advanced failure diagnosis algorithm, powered by AI, analyzes the historical operation data of the customer's VRV system to precisely detect the root cause of any abnormalities. |

# Option List

## Operation Control System Optional Accessories

### For VRV indoor unit use

| No. | Item \ Type | | | FXFSQ-A (For Black Panel) | FXFSQ-A | FXZQ-M | FXUQ-A | FXCQ-M | FXKQ-AV | FXDQ-PD FXDQ-ND |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Remote controller | Wireless | Receiver | BRC7M634K | BRC7M632F-6 | BRC7M530W-6 | BRC7CB58 | BRC7M65 | BRC63AV | BRC4M61-6 |
| | | | Handset | | BRC4M150W16 | | | | BRC4M150W16 | |
| | | Wired | | | BRC1E63 | BRC2E61 | | | | |
| 2 | Navigation remote controller (Wired remote controller) | | | | | BRC1E63 Note 7 | | | | |
| 3 | Simplified remote controller (Exposed type) | | | — | | | | | | BRC2C51 |
| 4 | Remote controller for hotel use (Concealed type) | | | — | | | | | | BRC3A61 |
| 5 | Adaptor for wiring | | | ★KRP1C63 | | ★KRP1BA57 | — | ★KRP1B61 | KRP1B61 | ★KRP1B56 |
| 6-1 | Wiring adaptor for electrical appendices (1) | | | ★KRP2A62 | | ★KRP2A62 | — | ★KRP2A61 | KRP2A61 | ★KRP2A53 |
| 6-2 | Wiring adaptor for electrical appendices (2) | | | ★KRP4AA53 | | ★KRP4AA53 | ★KRP4AA53 | ★KRP4AA51 | KRP4AA51 | ★KRP4A54 |
| 7 | Remote sensor (for indoor temperature) | | | KRCS01-4B | | KRCS01-1B | | | | |
| 8 | Installation box for adaptor PCB ☆ | | | Note 2, 3 KRP1H98 | | Note 4, 6 KRP1BA101 | KRP1BA97 | Note 2, 3 KRP1B96 | — | Note 4, 6 KRP1BA101 |
| 9 | External control adaptor for outdoor unit | | | ★DTA104A62 | | ★DTA104A62 | — | ★DTA104A61 | DTA104A61 | ★DTA104A53 |
| 10 | Adaptor for multi tenant | | | ★DTA114A61 | | — | | | | |

| No. | Item \ Type | | | FXMQ-P/ FXMQ-ARV | FXMQ-NVE | FXHQ-MA/AVM | FXAQ-A | FXLQ-MA FXNQ-MA | FXVQ-N |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Remote controller | Wireless | Receiver | BRC4M61-6 | | BRC7EA63W9 /BRC7M53 | BRC7N618-6 | BRC4M61-6 | — |
| | | | Handset | BRC4M150W16 | | | BRC4M150W16 | | — |
| | | Wired | | BRC2E61 | | | | | BRC2E61 Note 8 |
| 2 | Navigation remote controller (Wired remote controller) | | | BRC1E63 Note 7 | | | | | BRC1E63 Note 9 |
| 3 | Wired remote controller with weekly schedule timer | | | BRC1D61 | | | | | — |
| 4 | Simplified remote controller (Exposed type) | | | BRC2C51 | BRC2C51 | — | | BRC2C51 | — |
| 5 | Remote controller for hotel use (Concealed type) | | | BRC3A61 | BRC3A61 | — | | BRC3A61 | — |
| 6 | Adaptor for wiring | | | ★KRP1C64 | KRP1B61 | KRP1BA54 | — | KRP1B61 | KRP1C67 |
| 7-1 | Wiring adaptor for electrical appendices (1) | | | ★KRP2A61 | KRP2A61 | ★KRP2A61 | ★KRP2A61 | KRP2A61 | — |
| 7-2 | Wiring adaptor for electrical appendices (2) | | | ★KRP4AA51 | KRP4AA51 | ★KRP4AA52 | ★KRP4AA52 | KRP4AA51 | KRP2A62 |
| 8 | Remote sensor (for indoor temperature) | | | KRCS01-4B | — | — | KRCS01-1B | — | — |
| 9 | Installation box for adaptor PCB ☆ | | | Note 1 KRP4A96 | — | Note 3 KRP1CA93 | Note 1 KRP4AA93 | — | |
| 10 | External control adaptor for outdoor unit | | | ★DTA104A61 | DTA104A61 | ★DTA104A62 | ★DTA104A61 | DTA104A61 | DTA104A62 |
| 11 | Adaptor for multi tenant | | | ★DTA114A61 | — | — | ★DTA114A61 | — | |
| 12 | External control adaptor for cooling / heating | | | — | | | | | KRP6A1 |
| 13 | Remote controller with key | | | — | | | | | KRCB37-1 |

### Function List

| | | Round Flow with Sensing Type |
|---|---|---|
| | | FXFSQ-A |
| Remote controller | Wired | BRC1E63 |
| | Wireless | — |
| Dual sensors *1 | | ○ |
| Direct airflow *1 | | ○ |
| Sensing sensor low mode *1 | | ○ |
| Sensing sensor stop mode *1 | | ○ |
| Circulation airflow | | ○ |
| Individual airflow direction control | | ○ |
| Switchable 5 step fan speed | | ○ |
| Auto-airflow rate | | ○ |
| Auto-swing | | ○ |
| Swing pattern selection | | ○ |
| High ceiling application | | ○ |

**Notes:**
1. Installation box ☆ is necessary for each adaptor marked ★.
2. Up to 2 adaptors can be fixed for each installation box.
3. 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. Installation box ☆ is necessary for second adaptor.
6. Installation box ☆ is necessary for each adaptor.
7. Individual airflow direction, auto airflow rate and sensing sensor control can be set only via wired remote controller BRC1E63. Cannot be set via other remote controllers.
8. Since the control panel is equipped as standerd, use the option for 2 remote control system.
9. When using BRC1E63, be sure to remove the control panel and since BRC1E63 cannot be stored inside the indoor unit, please place it separately.

# Control Systems

## 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 | Central remote controller | | DCS302CA61 | • Up to 64 groups of indoor units (128 units) can be connected, and ON/OFF, temperature setting and monitoring can be accomplished individually or simultaneously. Connectable up to 2 controllers in one system. |
| 2-1 | Electrical box with earth terminal (3 blocks) | | KJB311AA | |
| 3 | Unified ON/OFF controller | | DCS301BA61 | • Up to 16 groups of indoor units (128 units) can be turned, ON/OFF individually or simultaneously, and operation and malfunction can be displayed. Can be used in combination with up to 8 controllers. |
| 3-1 | Electrical box with earth terminal (2 blocks) | | KJB212AA | |
| 3-2 | Noise filter (for electromagnetic interface use only) | | KEK26-1A | |
| 4 | Schedule timer | | DST301BA61 | • Programmed time weekly schedule can be controlled by unified control for up to 64 groups of indoor units (128 units). Can turn units ON/OFF twice per day. |
| 5 | 5-room centralised controller for residential indoor units | For CDXS, FDK(X)S, FTK(X)S | Note 3 KRC72A | • Up to 5 indoor units can be controlled. This is a low cost system which can only control ON/OFF. |
| 6 | Interface adaptor for residential indoor units | For CDXS, FDK(X)S, FTK(X)S | KRP928BB2S | • Adaptors required to connect products other than those of the VRV System to the high-speed DIII-NET communication system adopted for the VRV System.<br>* To use any of the above optional controllers, an appropriate adaptor must be installed on the product unit to be controlled. |
| 7 | Interface adaptor for SkyAir-series | For FCQ-B, FFQ-B, FHQ-BV, FBQ-B | ★DTA112BA51 | |
| 8 | Central control adaptor kit | For UAT(Y)-K(A), FD-K | ★DTA107A55 | |
| 9 | Wiring adaptor for other air-conditioner | | ★DTA103A51 | |
| 10 | DIII-NET Expander Adaptor | | DTA109A51 | • Up to 1024 units can be centrally controlled in 64 different groups.<br>• Wiring restrictions (max. length: 1,000m, total wiring length: 2,000m, max. number of branches: 16) apply to each adaptor.<br>• Fixing plate for DTA109A51 |
| 10-1 | Mounting plate | | KRP4A92 | |

Notes: 1. Installation box for ★ adaptor must be obtained locally.
2. For residential use only. Cannot be used with other centralised control equipment.
3. A wiring adaptor (KRP413AB1S) is also required for each indoor unit.

## Building Management System

| No. | Item | | | | Model No. | Function |
|---|---|---|---|---|---|---|
| 1 | Intelligent Touch Controller | Basic | Hardware | Intelligent Touch Controller | DCS601C51 | • Air conditioning management system that can be controlled by a compact all-in-one unit. |
| 1-1 | | Option | Hardware | DIII-NET plus adaptor | DCS601A52-9 | • Additional 64 groups (10 outdoor units) is possible. |
| 1-2 | Electrical box with earth terminal (4 blocks) | | | | KJB411A | • Wall embedded switch box. |
| 2 | Intelligent Touch Manager | Basic | Hardware | Intelligent Touch Manager | DCM601B51 | • Air conditioning management system that can be controlled by touch screen. |
| 2-1 | | Option | Hardware | iTM plus adaptor | DGE601A52/53 | • Additional 64 groups (10 outdoor units) is possible. Max. 7 iTM plus adaptors can be connected to Intelligent Touch Manager. |
| 2-2 | | | | | | |
| 2-3 | | | Software | 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. |
| 2-4 | | | | iTM energy navigator | DCM008A51 | • Building energy consumption is visualised. Wasted air conditioning energy can be found out. |
| 2-5 | Di unit | | | | DEC101A51 | • 8 pairs based on a pair of ON/OFF input and abnormality input. |
| 2-6 | Dio unit | | | | DEC102A51 | • 4 pairs based on a pair of ON/OFF input and abnormality input. |
| 3 | Communication interface | *1 Interface for use in BACnet® | | | DMS502B51 | • Interface unit to allow communications between VRV and BMS. Operation and monitoring of air conditioning systems through BACnet® communication. |
| 3-1 | | Optional DIII board | | | DAM411B51 | • Expansion kit, installed on DMS502B51, to provide 2 more DIII-NET communication ports. Not usable independently. |
| 3-2 | | Optional Di board | | | DAM412B51 | • Expansion kit, installed on DMS502B51, to provide 16 more wattmeter pulse input points. Not usable independently. |
| 4 | | *2 Interface for use in LONWORKS® | | | DMS504B51 | • Interface unit to allow communications between VRV and BMS. Operation and monitoring of air conditioning systems through LonWorks® communication. |
| 5 | | Home Automation Interface Adaptor | | | DTA116A51 | • Use of the Modbus protocol enables the connection of the VRV system with a variety of home automation systems from other manufacturers. |

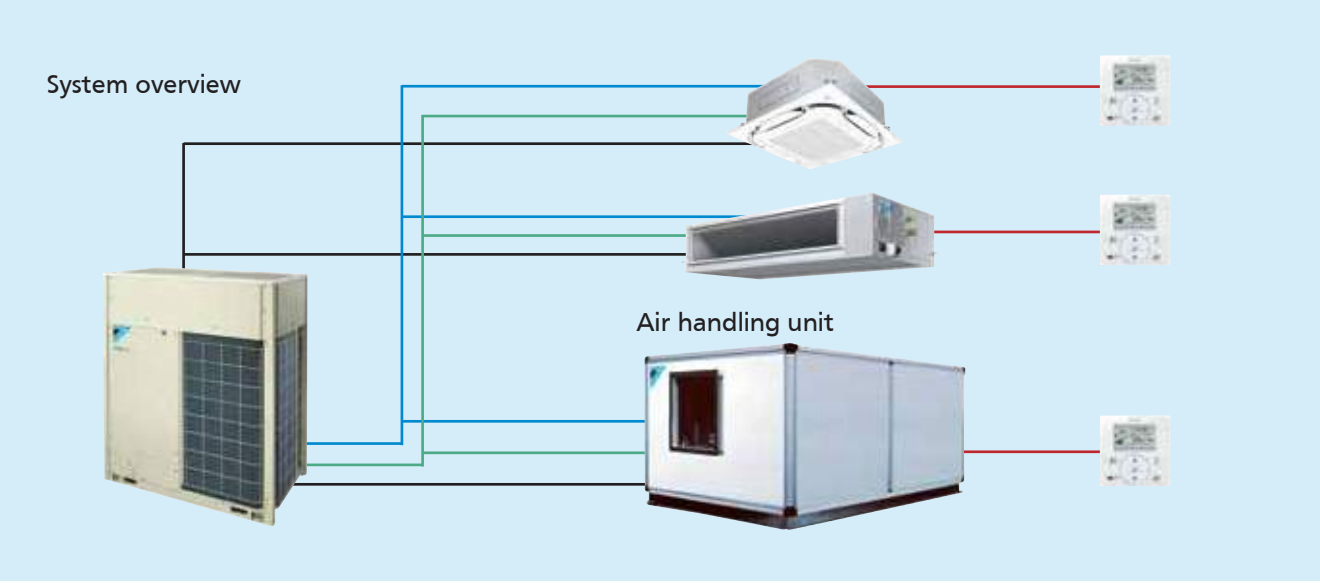
**Notes:**
*1. BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).
*2. LonWorks® is a trademark of Echelon Corporation registered in the United States and other countries.
*3. Installation box for ★ adaptor must be obtained locally.

# Air Handling Unit

## Integrate your air handling unit for large size spaces such as factories and for fresh air solutions.

**Capacity range : 6 - 78 HP**

- Easy design and installation.
- The system is easy to design and install since no additional water systems such as boilers, tanks, gas connections, etc. are required.
- Inverter controlled units.
- Control of air temperature via standard Daikin wired remote control.




Daikin communication wire (F1, F2 communication)
Other communication wire
Liquid pipe
Gas pipe

**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.**

*Control box and expansion valve kit are necessary for integration of AHU and VRV system.

# Header Pack

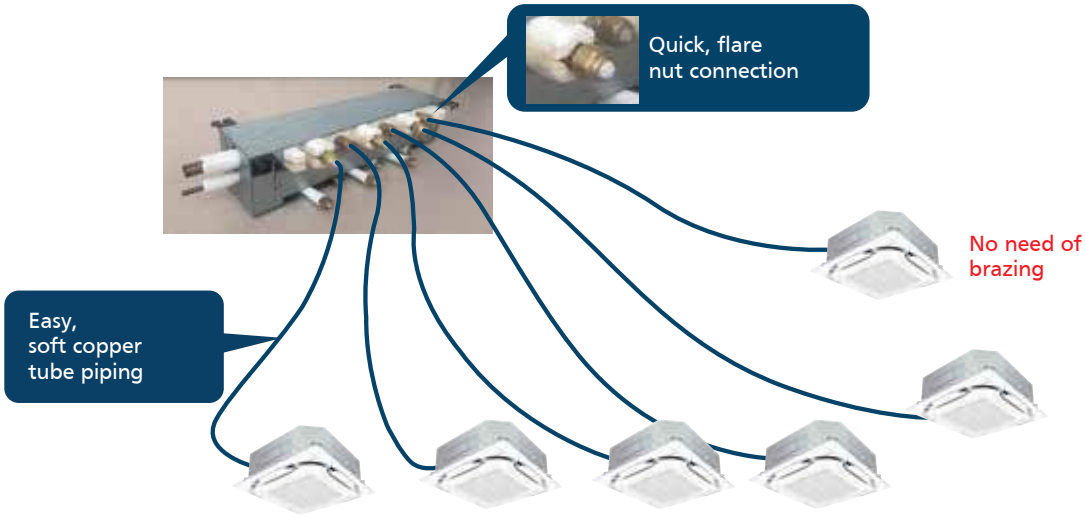
## The Innovative Refrigerant Piping of next generation.

Daikin innovated next generation of quality and efficiency for VRV installation. It offers differentiated soulutions in installation. It ensures quality installation with reduction of site work.

Header Pack

Advantage

- Installation time saving: Up to 1/3 of conventional method.
- Easy to Install: Hanging points available.
- Safety: Consists of faring method, no brazing required*.
- Space saving: Head pack to Indoor unit soft drawn pipe, top side of refrigerant pipe doesn't need space for brazing torch movement.
- Quality Installation: Elimination of difficult process, enhancing quality installation.




## Compact design to fit into narrow attic space

Light weight and the compact body give minimum damage on the building structure.

## Header Pack Line-up

| Model Code | Piping Connections (Liquid/Gas) mm | | Indoor Unit Total Capacity Index |
|---|---|---|---|
| | Outdoor Unit Side | Indoor Unit Side | |
| BHF6RHP6(Z) | Ø9.5/Ø15.9 | (Ø9.5/Ø15.9)X1, (Ø6.4/Ø12.7)X3 | ≤150 |
| BHF6ARHP6(Z) | Ø9.5/Ø15.9 | (Ø9.5/Ø15.9)X2, (Ø6.4/Ø12.7)X4 | ≤150 |
| BHF8RHP6(Z) | Ø9.5/Ø19.1 | (Ø9.5/Ø15.9)X3, (Ø6.4/Ø12.7)X3 | ≤200 |
| BHF 10RHP6(Z) | Ø9.5/Ø22.2 | (Ø9.5/Ø15.9)X3, (Ø6.4/Ø12.7)X3 | <290 |
| BHF16RHP6(Z) | Ø12.7/Ø28.6 | (Ø9.5/Ø15.9)X3, (Ø6.4/Ø12.7)X3 | <420 |

For More information
'Scan Me'

# Daikin Gas Tight Joint (DGT)

## Non-brazed connection for Refrigerant piping

### Evolutionally - Advanced Feature

A combination of rubber packing and screwed metal body offers gas-tight and rigid connection without brazing. Patented "Leverage Method" mechanically holds the pipe and prevents it from pull-out.

Size Ø6.4 - Ø41.3

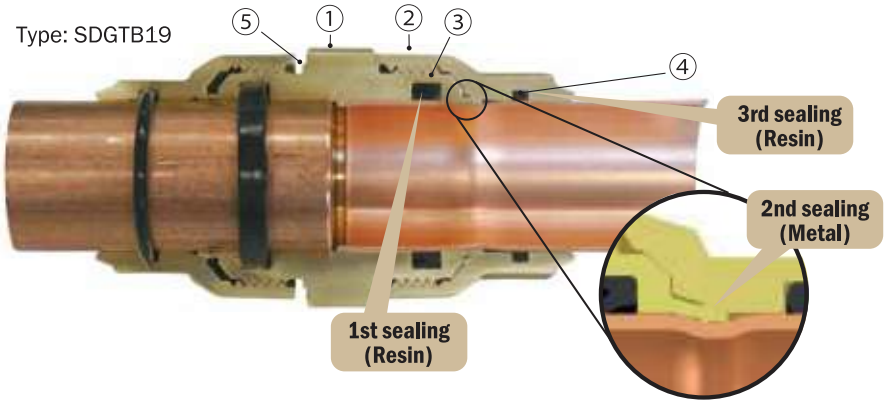
### Mechanism

Daikin DGT is a non-brazed connection suitable for piping. Pipes can be joined easily and quickly without brazing or using any special tools. It meets stringent safety requirements and provides leak-free tightness among various substantial benefits.

- Double edged claw catches the pipe to form tight mechanical sealing.
- 3 types of connectors suitable for most pipe sizes and applications.
- Unique mechanical and resin sealing prevent gas leak completely.
- It is durable up to 4 times (17.2MPa) of max. operating pressure.

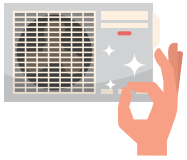
For More information 'Scan

Type: SDGTB19




### System Reliability

- No risk of copper oxide or soot in pipes due to no brazing.
- Prevents early compressor failure and prolongs the lifespan of air-conditioners.



### Safety First

- As no brazing is required, fire hazards are completely eliminated during installation on site.
- No risk of handling high pressure and flammable gas.

### Time & Costs Savings

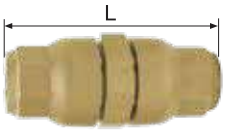
- No need to apply for hot work permit or station fire safety watchers onsite, thus saving time and cost with less administrative work.
- Simple installation process also reduces installation time.

# Daikin Gas Tight Joint (DGT)

## Non-brazed connection for Refrigerant piping

### Daikin Gas Tight Joint Line up
(Matching for various piping sizes)

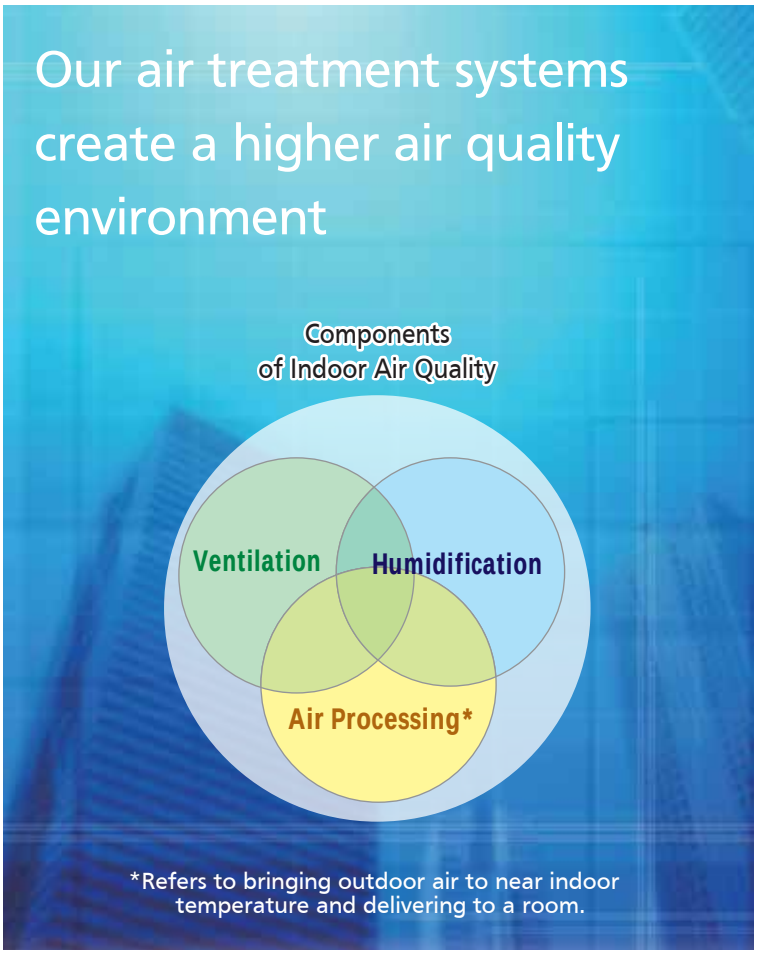
### Standard Joints (Connecting the same pipes)

| Figure | Model Name | Dimension (mm) | | | Weight /pc (g) |
|---|---|---|---|---|---|
| | | ND | AF | L | |
| | SDGTC06 | Ø6.4 | 19.0 | 50.4 | 43 |
| | SDGTC09 | Ø9.5 | 22.2 | 55 | 79 |
|  | SDGTC12 | Ø12.7 | 23.8 | 59 | 113 |
| | SDGTC15 | Ø15.9 | 29.7 | 74 | 210 |
| | SDGTB19 | Ø19.1 | 35.0 | 76.8 | 273 |
| | SDGTB22 | Ø22.2 | 38.0 | 83.4 | 292 |
| | SDGTB28 | Ø22.6 | 45.0 | 88 | 515 |
| | BDGTA34 | Ø34.9 | 51.1 | 101.5 | 686 |
| | BDGTA41 | Ø41.3 | 58.3 | 103.5 | 881 |

### Asymmetry Joints (Connecting different size pipes)

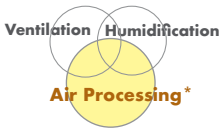
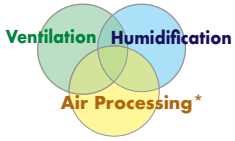
| Figure | Model Name | Dimension (mm) | | | | Weight /pc (g) |
|---|---|---|---|---|---|---|
| | | ND | AF | | L | |
| | SDGTC0906 | Ø9.5-6.4 | 22.2 | 19 | 52.7 | 67 |
| | SDGTC1209 | Ø12.7-9.5 | 23.8 | 22.2 | 57.5 | 101 |
| | SDGTC1512 | Ø15.9-12.7 | 29.7 | 23.8 | 65 | 164 |
| | SDGTC1915 | Ø19.1-15.9 | 35 | 29.7 | 76.8 | 244 |
| | SDGTB2219 | Ø22.2-19.1 | 38 | 35 | 81.5 | 358 |
| | SDGTB2522 | Ø25.2-22.2 | 41.8 | 38 | 85.8 | 444 |
| | SDGTB2825 | Ø28.6-25.4 | 45 | 41.8 | 88.1 | 505 |
| | SDGTB3428 | Ø34.9-28.6 | 51.1 | 45 | 101.5 | 645 |

# Air Treatment Equipment Line-Up




A recent trend rapidly gaining popularity is the need for air treatment along with air conditioning. Our 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 due to the greatly enhanced performance of the thin film element. Furthermore, improved external static pressure 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.

# Air Treatment Equipment Line-Up

| | | Outdoor Air Processing Unit | Heat Reclaim Ventilator | | |
|---|---|---|---|---|---|
| | | | VKM-GAM Type | VKM-GA Type | VAM-GJ Type |
| | |  <br> |  <br> | <br> | |
| Connections with VRV Alpha | Refrigerant Piping | Connectable | Connectable | | Not connectable |
| | Wiring | Connectable | Connectable | | Connectable |
| | After-Cool & After-Heat Control | Available | Available | | Not available |
| Heat Exchange Element | | — | Energy savings obtained | | Energy savings obtained |
| Humidifier | | — | Fitted | — | — |
| High Efficiency Filter | | Option | Option | | Option |
| Ventilation System | | Air supply only | Air supply & air exhaust | | Air supply & air exhaust |
| Power Supply | | 220-240 V, 50 Hz | 220-240 V, 50 Hz | | 220-240 V/220 V, 50 Hz |
| Airflow Rate | | 1260 $m^3/h$<br>1740 $m^3/h$<br>2340 $m^3/h$ | 500 $m^3/h$<br>800 $m^3/h$<br>1000 $m^3/h$ | | 250 $m^3/h$<br>500 $m^3/h$<br>650 $m^3/h$<br>800 $m^3/h$<br>1000 $m^3/h$<br>1500 $m^3/h$<br>2000 $m^3/h$ |

*Refers to bringing outdoor air to near indoor temperature and delivering to a room.

# Air Treatment Equipment Line-Up

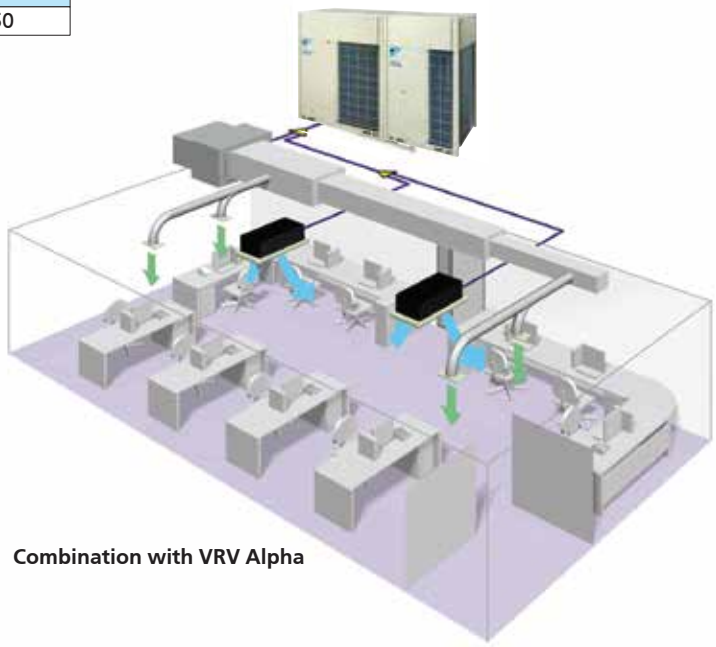
## Outdoor Air Processing Unit

### Combination of fresh air treatment and air conditioning, supplied from a single system.

**Lineup**

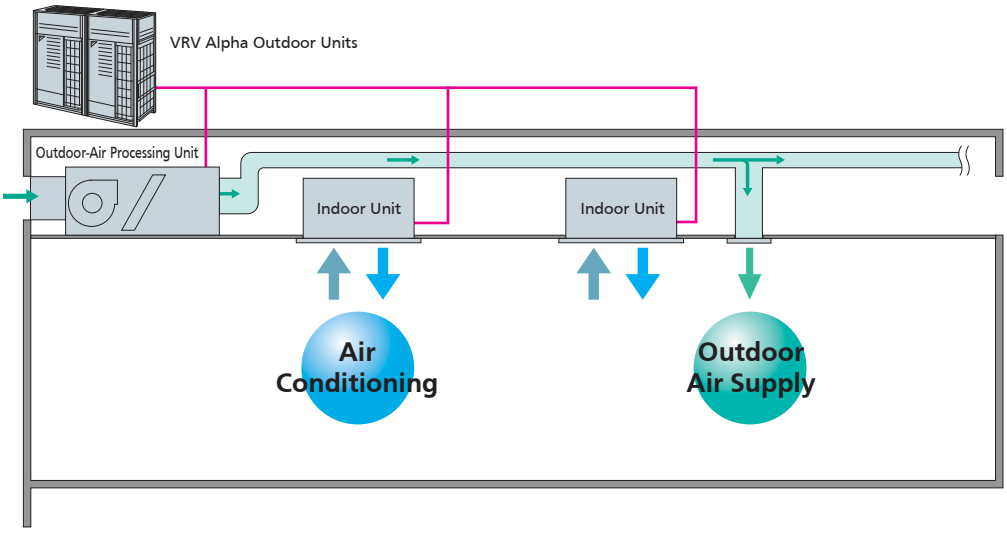
| Model Name | FXMQ125NFRV16 | FXMQ200NFRV16 | FXMQ250NFRV16 |
|---|---|---|---|
| Capacity Index | 125 | 200 | 250 |

Fresh air treatment and air conditioning can be achieved with a single system by using the 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.



Combination with VRV Alpha

### 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.
- Outdoor air processing units can be used without indoor units.

# Air Treatment Equipment Line-Up

## Standard Specifications

### Indoor unit

| Type | | | | Ceiling Mounted Duct Type | | |
|---|---|---|---|---|---|---|
| Model | | | | FXMQ125NFRV16 | FXMQ200NFRV16 | FXMQ250NFRV16 |
| Power supply | | | | 1-phase 220-240 V (also required for indoor units), 50 Hz | | |
| Cooling capacity *1 | | | kcal/h | 12,000 | 19,300 | 24,100 |
| | | | Btu/h | 47,800 | 76,400 | 95,500 |
| | | | kW | 14.0 | 22.4 | 28.0 |
| Heating capacity *1 | | | kcal/h | 7,700 | 12,000 | 15,000 |
| | | | Btu/h | 30,400 | 47,400 | 59,400 |
| | | | kW | 8.9 | 13.9 | 17.4 |
| Casing | | | | Galvanised steel plate | | |
| Dimensions (HXWXD) | | | mm | 440 x 1190 x 1090 | 440 x 1190 x 1090 | |
| Fan | Motor output | | kW | 0.75 | | |
| | Airflow rate | | $m^3$/min | 21 | 29 | 39 |
| | | | cfm | 741 | 1,024 | 1,377 |
| | External Static Pressure with Filter (PM10+PM50) | 220 V/240 V | Pa | 300 | 260 | 240 |
| Refrigerant piping | Liquid | | mm | ø9.5 (flare) | | |
| | Gas | | mm | ø15.9 (flare) | ø19.1 (brazing) | ø22.2 (brazing) |
| | Drain | | mm | PS1B female thread | | |
| Machine weight | | | k g | 115 | | |
| Sound level *3 | | 220 V/240 V | dBA | 48 | 50 | 52 |
| Connectable outdoor units *4 *5 | | | | 6 HP and above | | 10 HP and above |

Notes: *1. Specifications are based on the following conditions;
- Cooling: Outdoor temp. of 33°CDB, 28°CWB (68% RH), and discharge temp. of 18°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 conditions.

*4. It is possible to connect to the outdoor unit if the total capacity of the indoor units is 50% to 100% of the capacity index of the outdoor units.

*5 Local setting mode. Not displayed on the remote controller.
- This equipment cannot be incorporated into the remote group control of the VRV Alpha system.

# Air Treatment Equipment Line-Up

## Heat Reclaim Ventilator with DX-Coil and Humidifier-VKM Series

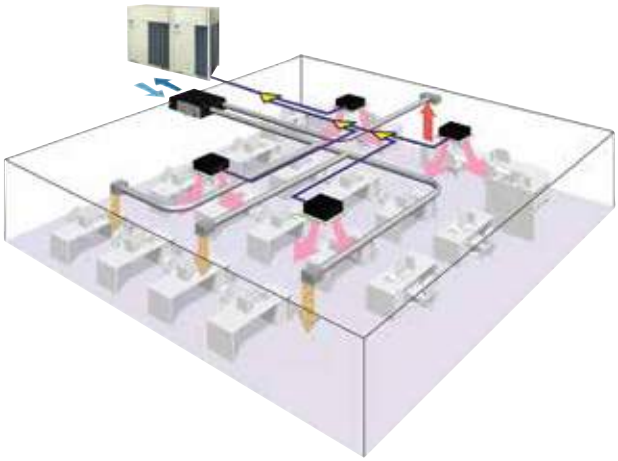
For More information 'Scan Me'

The Heat Reclaim Ventilator lineup features the DX-coil in response to recently diversifying outdoor air introduction requirements.

**Line-up**

| | With DX Coil & Humidifier Type | | |
|---|---|---|---|
| Model Name | VKM50GAMV1 | VKM80GAMV1 | VKM100GAMV1 |
| Capacity Index | 31.25 | 50 | 62.5 |

| | With DX Coil Type | | |
|---|---|---|---|
| Model Name | VKM50GAV1 | VKM80GAV1 | VKM100GAV1 |
| Capacity Index | 31.25 | 50 | 62.5 |



VKM80GAV1

### 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 responds to customer requirements.

### Humidifier

The line-up includes models with a humidifier, in response to diversifying customer requirements. (VKM50/80/100GAMV1 only)

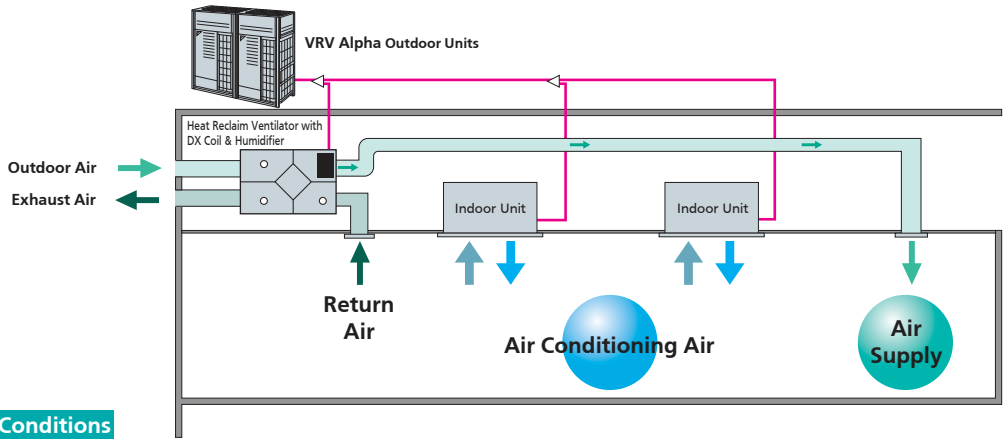
### DX-coil

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.**

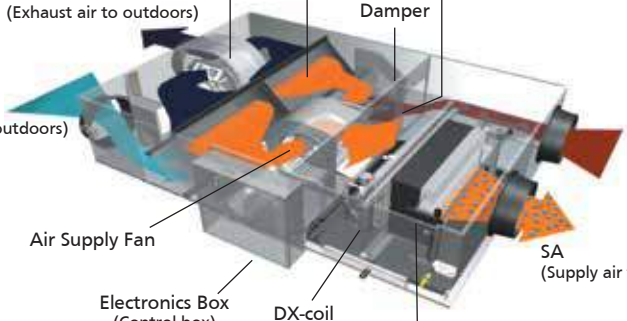
- When the Heat Reclaim Ventilator VKM series units are connected, the total connection capacity index must be 50% to 130% of the capacity index of the outdoor units.

# Air Treatment Equipment Line-Up

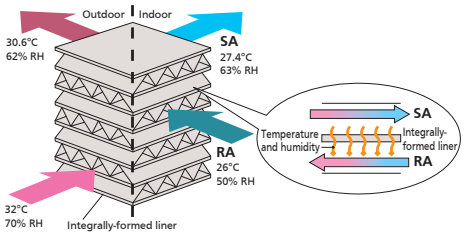
## A compact unit packed with our cutting-edge technology

For More information 'Scan Me'

**HEP Element**
(Anti-mould)



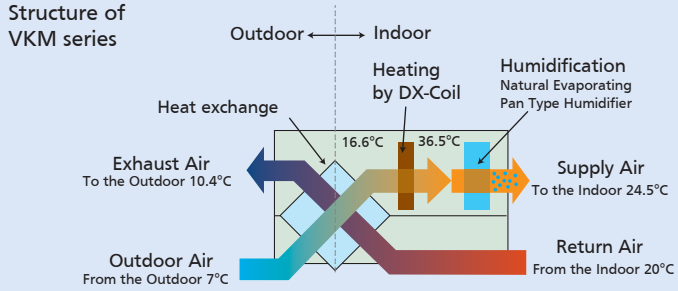

**Operation of the heat exchanger element**



**DX-coil** (Direct expansion coil)

**Humidifier Element**

**Heating and humidification process**




**Humidification: 5.4kg/h** (VKM100GAMV1)

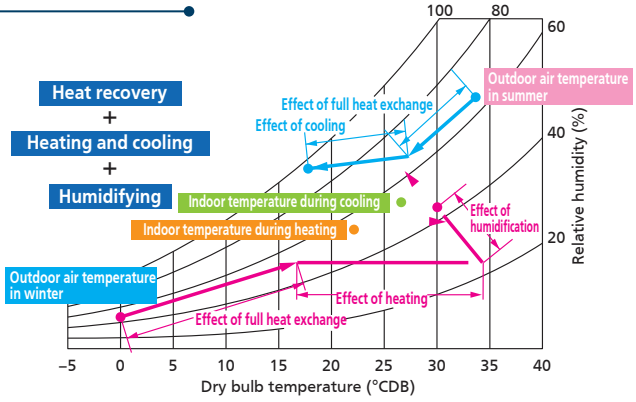
The outdoor air is heated from 16.6°C to 36.5°C with DX-coil, Natural Evaporating Pan Type Humidifier is passed and humidification capacity is improved.

DX-Coil: Heat Exchanger which heats or cools the air by VRV outdoor unit's refrigerant.

## Efficient outdoor air introduction with heat exchanger and cooling/heating operations

**Indoor unit with outdoor air treatment**

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.

# Air Treatment Equipment Line-Up

VRV α™

## Specifications

| MODEL | | | | VKM50GAMV1* | VKM80GAMV1* | VKM100GAMV1* | VKM50GAV1 | VKM80GAV1 | VKM100GAV1 |
|---|---|---|---|---|---|---|---|---|---|
| Refrigerant | | | | R-410A | | | | | |
| Power Supply | | | | 1-phase, 220–240 V, 50 Hz | | | | | |
| Airflow Rate & Static Pressure (Note 7) | Ultra-high | Airflow rate | m³/h | 500 | 750 | 950 | 500 | 750 | 950 |
| | | Static pressure | Pa | 160 | 140 | 110 | 180 | 170 | 150 |
| | High | Airflow rate | m³/h | 500 | 750 | 950 | 500 | 750 | 950 |
| | | Static pressure | Pa | 120 | 90 | 70 | 150 | 120 | 100 |
| | Low | Airflow rate | m³/h | 440 | 640 | 820 | 440 | 640 | 820 |
| | | Static pressure | Pa | 100 | 70 | 60 | 110 | 80 | 70 |
| Power Consumption | Heat exchange mode | Ultra-high | W | 560 | 620 | 670 | 560 | 620 | 670 |
| | | High | | 490 | 560 | 570 | 490 | 560 | 570 |
| | | Low | | 420 | 470 | 480 | 420 | 470 | 480 |
| | Bypass mode | Ultra-high | W | 560 | 620 | 670 | 560 | 620 | 670 |
| | | High | | 490 | 560 | 570 | 490 | 560 | 570 |
| | | Low | | 420 | 470 | 480 | 420 | 470 | 480 |
| Fan Type | | | | Sirocco 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 |
| Sound Level (Note 5) (220/230/240 V) | Heat exchange mode | Ultra-high | dBA | 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 | | 35/35.5/36 | 36/37/37.5 | 37/37.5/38 | 36/36.5/37 | 37.5/38/39 | 38/38.5/39 |
| | | Low | | 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 |
| | Bypass mode | Ultra-high | dBA | 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 | | 35/35.5/36 | 36/37/37.5 | 37/37.5/38 | 36/36.5/37 | 37.5/38/39 | 38/38.5/39 |
| | | Low | | 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 4) | | | kg/h | 2.7 | 4.0 | 5.4 | — | | |
| Temp. Exchange Efficiency | Ultra-high | | % | 76 | 78 | 74 | 76 | 78 | 74 |
| | High | | | 76 | 78 | 74 | 76 | 78 | 74 |
| | Low | | | 77.5 | 79 | 76.5 | 77.5 | 79 | 76.5 |
| Enthalpy Exchange Efficiency (Cooling) | Ultra-high | | % | 64 | 66 | 62 | 64 | 66 | 62 |
| | High | | | 64 | 66 | 62 | 64 | 66 | 62 |
| | Low | | | 67 | 68 | 66 | 67 | 68 | 66 |
| Enthalpy Exchange Efficiency (Heating) | Ultra-high | | % | 67 | 71 | 65 | 67 | 71 | 65 |
| | High | | | 67 | 71 | 65 | 67 | 71 | 65 |
| | Low | | | 69 | 73 | 69 | 69 | 73 | 69 |
| Casing | | | | Galvanised Steel Plate | | | | | |
| Insulating Material | | | | Self-Extinguishable Urethane Foam | | | | | |
| Heat Exchanging System | | | | Air to Air Cross Flow Total Heat (Sensible + Latent Heat) Exchange | | | | | |
| Heat Exchanger Element | | | | Specially Processed Non-flammable Paper | | | | | |
| Air Filter | | | | Multidirectional Fibrous Fleeces | | | | | |
| DX-coil Capacity | Cooling (Note 2) | | kW | 2.8 | 4.5 | 5.6 | 2.8 | 4.5 | 5.6 |
| | Heating (Note 3) | | | 3.2 | 5.0 | 6.4 | 3.2 | 5.0 | 6.4 |
| Dimensions | Height | | mm | 387 | 387 | 387 | 387 | 387 | 387 |
| | Width | | | 1,764 | 1,764 | 1,764 | 1,764 | 1,764 | 1,764 |
| | Depth | | | 832 | 1,214 | 1,214 | 832 | 1,214 | 1,214 |
| Connection Duct Diameter | | | mm | Ø 200 | Ø 250 | | Ø 200 | Ø 250 | |
| Machine Weight | | Net | kg | 102 | 120 | 125 | 96 | 109 | 114 |
| | | Gross (Note 8) | | 107 | 129 | 134 | — | | |
| Unit Ambient Condition | | Around Unit | | 0°C–40°C DB, 80%RH or less | | | | | |
| | | OA (Note 9) | | -15°C–40°C DB, 80%RH or less | | | | | |
| | | RA (Note 9) | | 0°C–40°C DB, 80%RH or less | | | | | |

**Notes:** 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°C DB, 19°C WB, Outdoor temperature: 35°C DB.
3. Indoor temperature: 20°C DB, Outdoor temperature: 7°C DB, 6°C WB.
4. Humidifying capacity is based on the following conditions: Indoor temperature: 20°C DB, 15°C WB, Outdoor temperature: 7°C DB, 6°C WB.
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 chamber 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.

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 dBA 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.
10. Specifications, design and information here are subject to change without notice.
11. 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.
13. 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 continue 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 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 static 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.

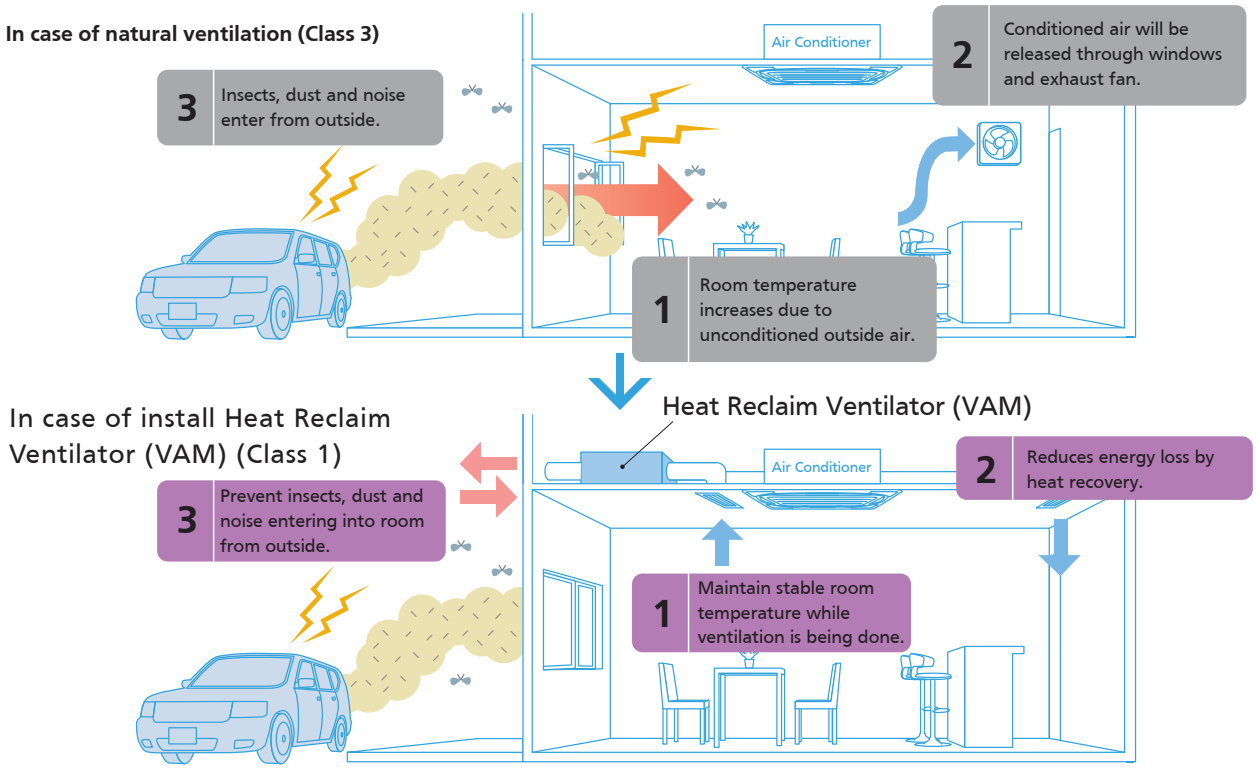
* Life of humidifying element is about 3 years (4,000 hours) under the supply water conditions of hardness: 150 mg/l. (Life of humidifying element is about 1 year (1,500 hours) under the supply water conditions of hardness: 400 mg/l.) Annual operating hours: 10 hours/day x 26 days/month x 5 months = 1,300 hours.

# Air Treatment Equipment Line-Up

## Heat Reclaim Ventilator - VAM Series

### Good quality air for every day

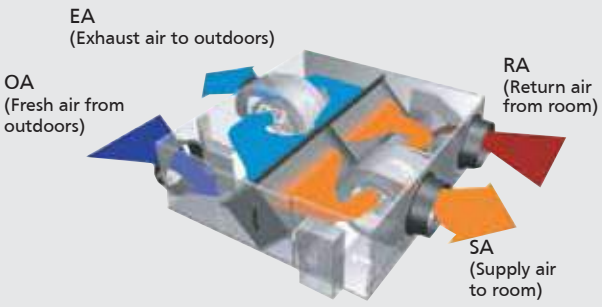
**Controlling the necessary elements will improve the quality of ventilation.**

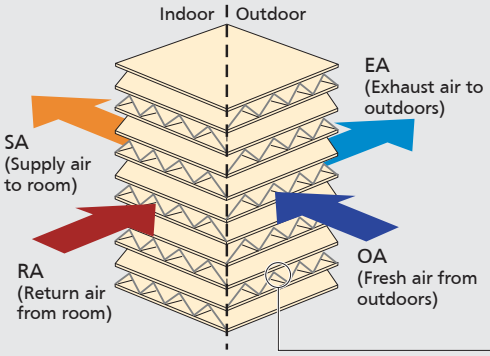


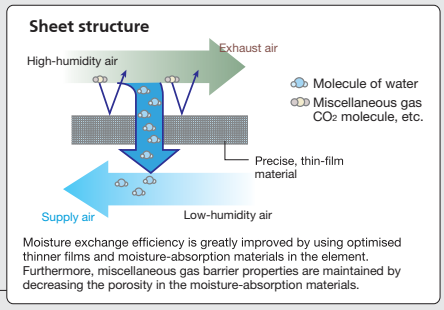

### Air conditioning load is reduced by heat recovery

**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 system.

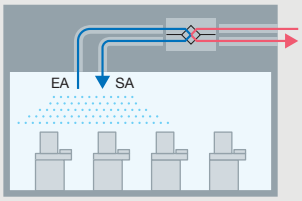
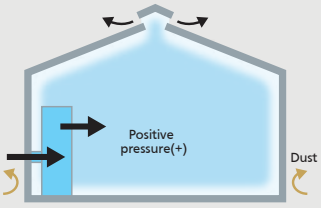
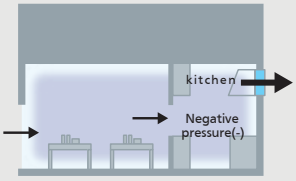


# Air Treatment Equipment Line-Up

## Airflow Control

| Class 1 Ventilation | Class 2 Ventilation | Class 3 Ventilation |
|---|---|---|
| Both supply air and exhaust air are controlled by mechanical ventilation in order to achieve stable ventilation when required.<br><br>For common ventilation usage, Class 1 ventilation is able to meet the requirement. | System that uses mechanical ventilation for supply air and natural ventilation for exhaust air.<br><br>Class 2 ventilation is often used for specific purpose such as positively pressured room (Hospital Clean Room, Factory Clean Room). | System that uses natural ventilation for supply air and mechanical ventilation for exhaust air.<br><br>Class 3 ventilation often being used at area with high odor generation such as kitchen and toilet. |
| "For example: Heat Reclaim Ventilator" | "For example: Mechanical Ventilation (Supply)" | "For example: Mechanical Ventilation (Exhaust)" |
|  |  |  |







## Fresh Up Operation

By changing the airflow balance, positive pressure or negative pressure in a room can be achieved in order to prevent pollutants from entering or flowing out.

**Supply fresh up operation increases the supply air volume to prevent pollutants from entering into the room.**

For example, it keeps outdoor pollen and dust from entering when doors are opened or closed, or through gaps in windows.

Example: Convenience Stores

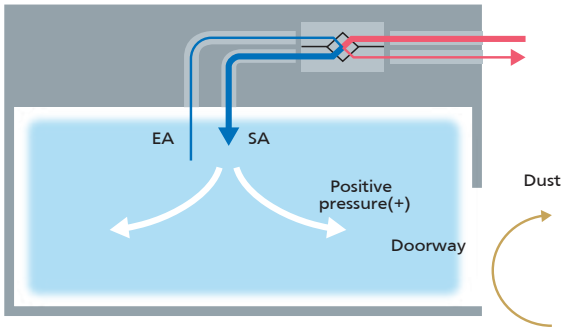
By positive pressure in the room, the entering of dirty outside air, odors and moisture when opening and closing of doorway is prevented.

**Exhaust fresh up operation will increase exhaust air volume to prevent pollutants from flowing to other area.**

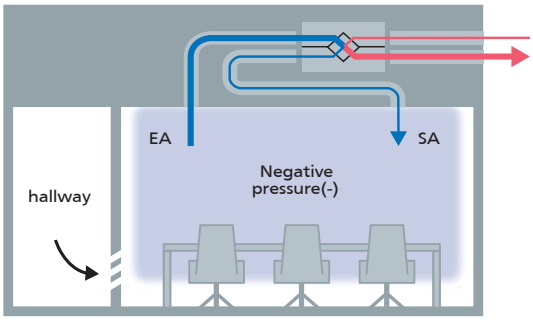
For example, to prevent dirty air generated indoors from flowing out in through windows and doors, the indoor air is kept under negative pressure and discharged.

Example: Conference Room

By negative pressure in the room, contaminated air and moisture from the room is prevented from leaking into other areas.







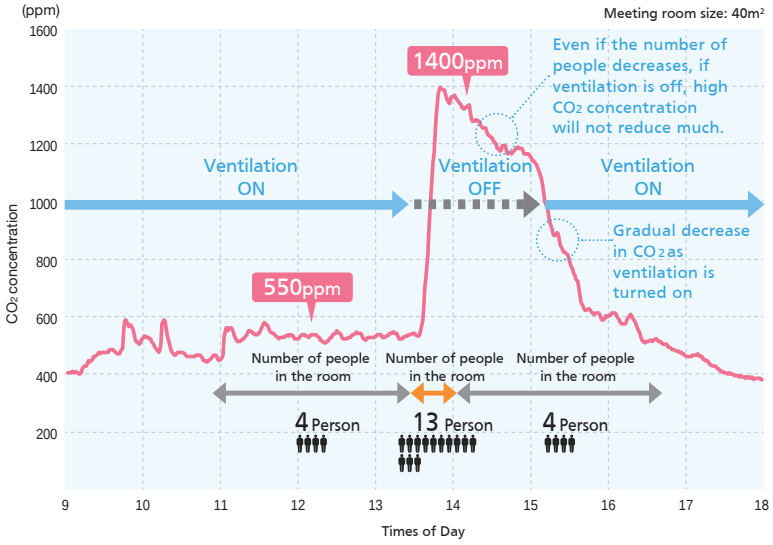
# Air Treatment Equipment Line-Up

## Ventilation volume control with CO2 sensor interlocking

**During increase in $CO_2$ level in the room, ventilation air volume will be increased to have higher air exchange in order to reduce the $CO_2$ level in room.**

**Human occupancy is reflected as $CO_2$ concentration**

Change in $CO_2$ concentration in conference room

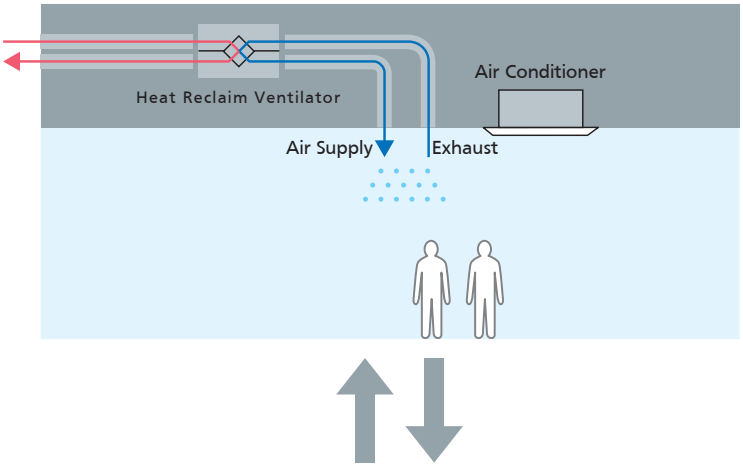


Experimental data: $CO_2$ concentration in the conference room. Closed conference rooms often tend to have stagnant air flow. In long meeting duration or meeting with full occupancy, the concentration of $CO_2$ increases due to the exhaled $CO_2$ from human and causes decrease in mind concentration. In order to achieve effective ventilation in short period, mechanical ventilation and natural ventilation should be combined to replace the air.

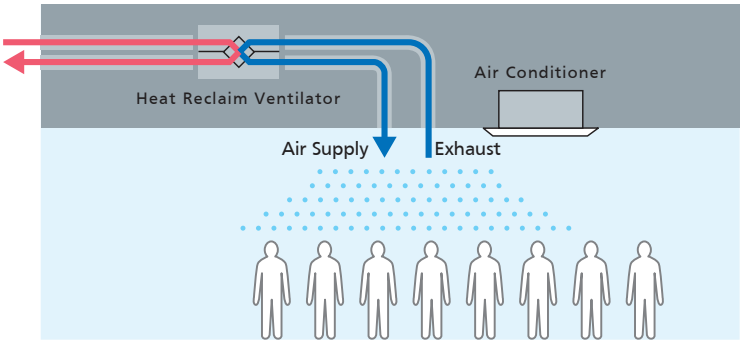
Image is for illustrative purpose.

## Equipped with a $CO_2$ sensor to automatically control the ventilation volume according to the $CO_2$ concentration

Low airflow when there is low occupancy.




High airflow when there is an increase in occupancy.




**NEW !** New Wired Controller (BRC1H62W/K)

With the new wired controller, BRC1H62W/K, the airflow is able to be automatically controlled based on $CO_2$ concentration and $CO_2$ concentration is able to be visualized on the screen*.

*Optional accessory $CO_2$ sensor is required for this function.

This $CO_2$ sensor cannot be used as $CO_2$ measurement tool. $CO_2$ concentration value will be subject to change depending on the room condition and environment.

# Air Treatment Equipment Line-Up

## Energy Saving Ventilation (interlocked with air conditioner)

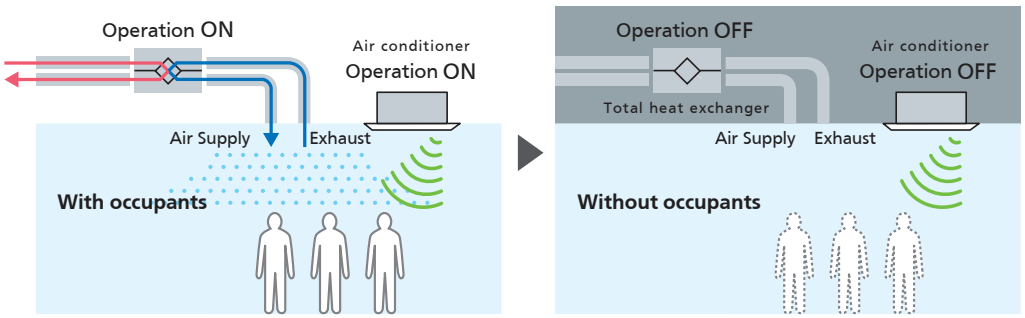
**Air conditioner and ventilation system can be interlocked to provide even greater comfort and energy saving.**

The system can be interlocked with Daikin air conditioners to provide energy saving ventilation solution for various situation.

## Sensing Sensor Stop Mode

**In situation of no human occupancy detection, the operation is turned off.**

When the "Sensing sensor" installed on the air conditioner detects no occupancy in the room, the ventilation system and air conditioner system is turned off automatically to reduce energy wastage.

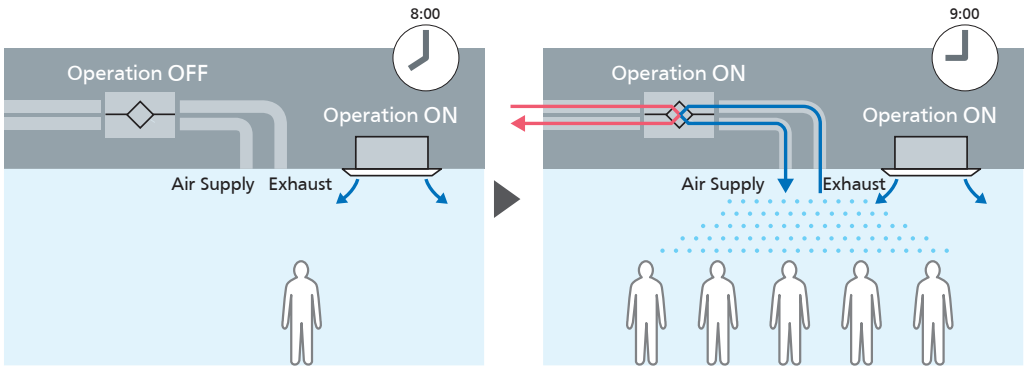



- During group controlling of air conditioner, no occupancy stop mode cannot be used. Please refer to VRV general catalogue for the target indoor units.
- When 24-hours ventilation mode is turned on, the normal operation mode is changed to 24-hours ventilation mode.
- Once the absence is detected and the operation stopped, it will not be performed automatically again.

## Pre-Cooling/Pre-Heating Control

**The operation of ventilation system is delayed during this mode.**

During first start up of the air conditioner, the start up operation of ventilation system is delayed in order to reduce additional heat load from outside air. This will reduce power consumption for the air conditioner as well.




- Delay timer settings can be adjusted.

## Auto-Ventilation Mode Changeover Switching

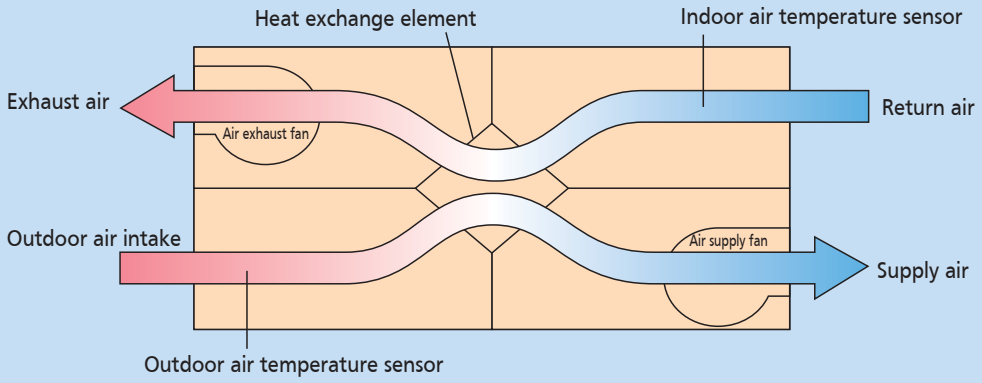
Automatically switches the ventilation mode (Total Heat Exchange Mode/Bypass Mode) according to the operating status of the air conditioner.

When the cooling operation is required in winter, use of heat recovery ventilation is not efficient because the outdoor air temperature is normally lower than that of the indoor. Thus, the proper use of ventilation mode enhances the heating / cooling efficiency.

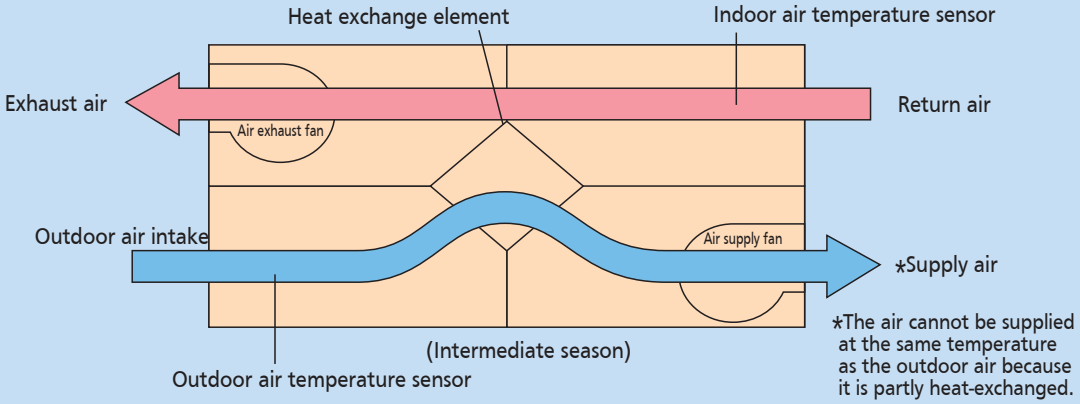
In addition, by installing a humidity sensor (optional), automatic switching by heat (energy) or discomfort index is possible which further improves energy efficiency and comfort.

### Total Heat Exchange Mode

**(Cooling operation in summer/Heating operation in winter)**




### Bypass Mode (‡Intermediate· season)




*The air cannot be supplied at the same temperature as the outdoor air because it is partly heat-exchanged.

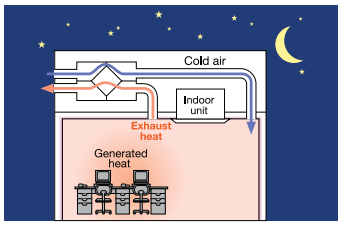
# Air Treatment Equipment Line-Up

## Night time free cooling operation

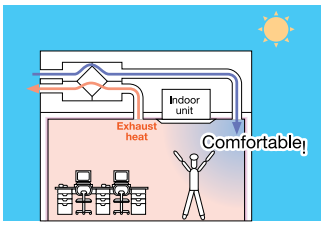
Night time free cooling operation is an energy-conserving function that works at night when air conditioners are off. By ventilating rooms containing office equipment that raises the room temperature, night time free cooling operation reduce the cooling load when air conditioners are turned on in the morning. It also alleviates feelings of discomfort in the morning caused by heat accumulated during the night.

- When connected to air conditioners, operation of heat reclaim ventilator is controlled according to the set temperature, outside air temperature and room temperature.
- When using only ventilation unit, operation of heat reclaim ventilator is controlled according to the set temperature on remote controller.
- Night time free cooling operation is possible during air conditioners linked operation by centralized control.
- Night time free cooling operation is set to "off" in the factory settings, so if there is a need to turn on, please contact Daikin dealer.

The indoor accumulated heat is discharged at night.
This reduces the air conditioning load the next day, thereby increasing efficiency.

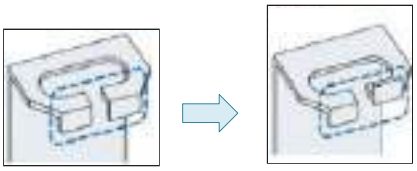



Heat is discharged.




The load is small so the temperature is rapidly reduced to a comfortable level.
*Interlocked operation with an air conditioner.

## Improved Installation Method



1. Improved installation process by changing the dimension and shape of hanging bracket.
   - The nut dropout prevention structure eliminates the need to replace the hanging bracket even when mounting upside down.
   - It also prevents the anti-vibration hanging bracket from interfering with the equipment.

2. Improved duct installation process with new duct connector location.
   - The duct connector is adjusted to be parallel to each other in order to ease duct installation process.

3. Improves controllability by input / output signals and simplifies various wiring work.
   - Operation, ventilation volume, and ventilation mode can be switched by external contact input.
   - Output signal terminal for external dampers.
   - Output signal terminal for abnormal signals and filter signs.

# Air Treatment Equipment Line-Up

## Application Example

**Ventilation related points to be taken into note during designing stage.**

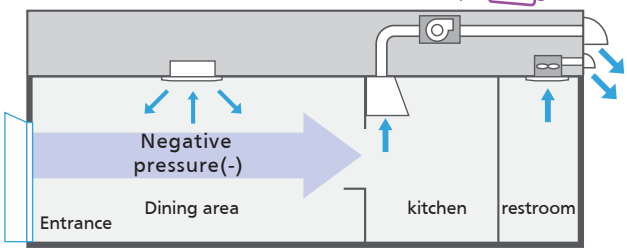
### Restaurant

**Problem**

- The entrance door is difficult to open.
- The food smell leaks to dining area.
- Hot outside air is coming in when the entrance door is opened.

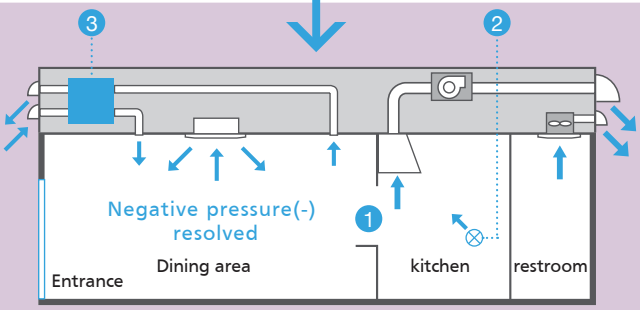
The restaurant has negative room pressure due to insufficient supply air. When the entrance door is opened, outside air enters into the restaurant bringing warm air and pollutants.

Regardless of the industry, the cause of difficulty in opening doors may be due to insufficient air supply (ventilation).




**Countermeasure plan**

1. Separate ventilation for kitchen and customer dining area.
2. Provide an air supply vent in the kitchen.
3. Install a Heat Reclaim Ventilator in the dining area.



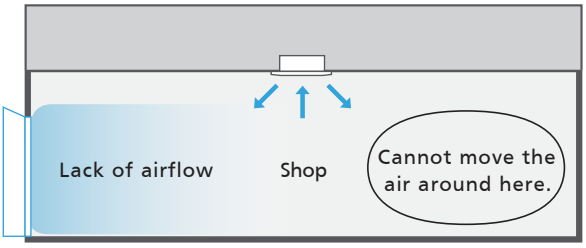

### Office & Shoplot

**Problem**

- Ventilation cannot be achieved by opening windows or doors.
- No large windows or doors at the area.

No air movement due to low airflow.

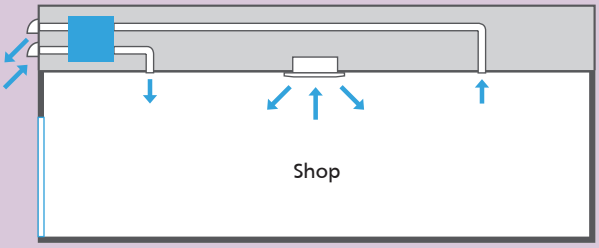
In the case of windows and doors are located at the front only, there will be no air movement at the back of the shop. Air will be stagnant and not well ventilated.




**Countermeasure plan**

Heat Reclaim Ventilator must be installed to provide effective mechanical ventilation.

As a result, airflow is able to ventilate all areas of the shop.



# Air Treatment Equipment Line-Up

## Remote Controller & Option List

Standard remote controller: - BRC1H63W/BRC1H63K
Optional remote controller: - Navigation remote controller-BRC1E63, Simplified remote controller-BRC2E61
(Optional controller are connectable with some function limitation.)

| Function | Detail | BRC1H63W(K) | BRC1E63 | BRC2E61 |
|---|---|---|---|---|
| | | | | |
| Air conditioner interlock | Interlock Heat Reclaim Ventilator with air conditioner by one remote controller. | ● | ● | ● |
| Ventilation mode | Switch the ventilation mode (Automatic, Heat exchange, Bypass). | ● | ● | - |
| Ventilation airflow rate | When using $CO_2$ sensor, ventilation volume can be changed. | ● | ● | ● |
| Fresh up indication | Indicates that fresh up operation is being carried out. | ● | - | - |
| $CO_2$ indication | Indicates value of $CO_2$ sensor. | ○ | - | - |
| Outdoor temperature indication | Indicates outdoor air temperature (OA). | ○ | - | - |
| Night time free cooling indication | Show the night purge icon when is set. | ○ | - | - |
| 24 hours ventilating indication | Show the icon when 24hrs operation is set. | ○ | - | - |
| Ventilating operation indication | Indicates that ventilating operation is being carried out even when night purge operation and 24 hour ventilating operation is being carried out. | ● | ● | - |
| Ventilating standby indication | Indicates that ventilating operation has been stopped temporarily during pre-cool / pre-heat control. | ○ | - | - |
| Sharing $CO_2$ data | Share the $CO_2$ data to submit from main unit within the group. | ○ | - | - |

Additional functions: ● Installed functions ○ Additional Installation function

Option List:

| Type | | | Item | VAM250HVE | VAM500HVE | VAM650HVE |
|---|---|---|---|---|---|---|
| Additional Function | Silencer | | | – | KDDM24B100 | |
| | | Nominal Pipe | mm | – | φ200 | |
| | High efficiency filter | | | KAF242J25M | KAF242J65M | |
| | Air filter for replacement | | | KAF241J25M | KAF241J65M | |
| Flexible duct (1m) | | | | K-FDS151E | K-FDS201E | |
| Flexible duct (2m) | | | | K-FDS152E | K-FDS202E | |
| $CO_2$ sensor | | | | BRYC24A25M | BRYC24A65M | |
| Humidity sensor | | | | BRYH241A100 (for RA) / BRYH242A100 (for OA) | | |
| PM2.5 filtration unit | | | | BAF249A300 | BAF249A500 | – |
| PM2.5 with activated carbon filtration unit | | | | BAF249A300C | BAF249A500C | – |
| Wired remote controller | | | | BRC1H62W (White) / BRC1H62K (Black) / BRC1E63 / BRC2E61 | | |
| Controlling device | Centralised controlling device | | Residential central remote controller | DCS303A51*1 | | |
| | | | Central remote controller | DCS302CA61 | | |
| | | | Unified ON/OFF controller | DCS301BA61 | | |
| | | | Schedule Timer | DST301BA61 | | |
| | PCB adaptor | | Wiring adaptor for electrical appendices | KRP2A62 | | |
| | | | Installation box for adaptor | KRP1C18A90 | | |
| | | | For heater control kit | BRP4A50A | | |
| | | | PCB adaptor for wiring | KRP1C18 | | |

| Type | | | Item | VAM800HVE | VAM1000HVE | VAM1500HVE | VAM2000HVE |
|---|---|---|---|---|---|---|---|
| Additional function | Silencer | | | KDDDM24B100 | | KDDDM24B100 x 2 | |
| | | Nominal pipe | mm | φ250 | | | |
| | High efficiency filter | | | KAF242K100M | | KAF242K100M x 2 | |
| | Air filter for replacement | | | KAF241K100M | | KAF241K100M x 2 | |
| Flexible duct (1m) | | | | K-FDS251E | | | |
| Flexible duct (2m) | | | | K-FDS252E | | | |
| $CO_2$ sensor | | | | BRYC24A100M | | | |
| Humidity sensor | | | | BRYH241A100 (for RA) / BRYH242A100 (for OA) | | | |
| PM2.5 filtration unit | | | | BAF429A20A | | | |
| PM2.5 with activated carbon filtration unit | | | | BAF429A20AC | | | |
| Wired remote controller | | | | BRC1H62W (White) / BRC1H62K (Black) / BRC1E63 / BRC2E61 | | | |
| Controlling device | Centralised controlling device | | Residential central remote controller | DCS303A51*1 | | | |
| | | | Central remote controller | DCS302CA61 | | | |
| | | | Unified ON/OFF controller | DCS301BA61 | | | |
| | | | Schedule Timer | DST301BA61 | | | |
| | PCB adaptor | | Wiring adaptor for electrical appendices | KRP2A62 | | | |
| | | | Installation box for adaptor | KRP1C18A90 | | | |
| | | | For heater control kit | BRP4A50A | | | |
| | | | PCB adaptor for wiring | KRP1C18 | | | |

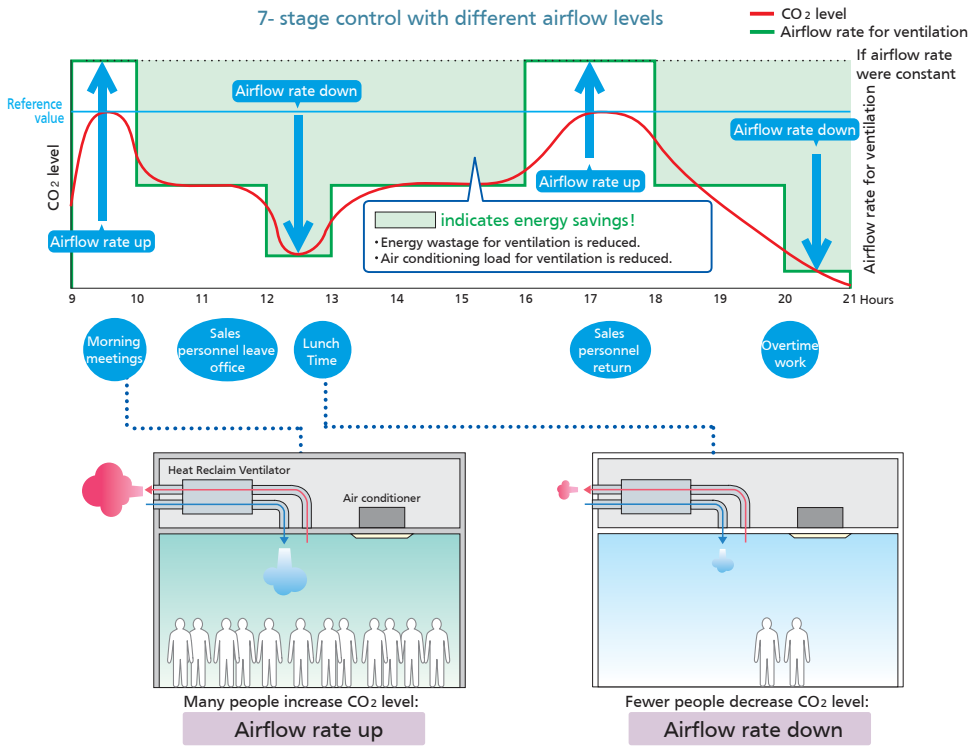
* 1 For residential only. When connect with a Heat Reclaim Ventilator (VAM), you can only switch the power ON/OFF. It cannot be used with other central control equipment.

# Air Treatment Equipment Line-Up

## Airflow rate control with CO2 sensor

The $CO_2$ sensor controls airflow rate so that it best matches the changes of $CO_2$ level in the room. This prevents energy losses from over-ventilation while maintaining indoor air quality with optional $CO_2$ sensor.

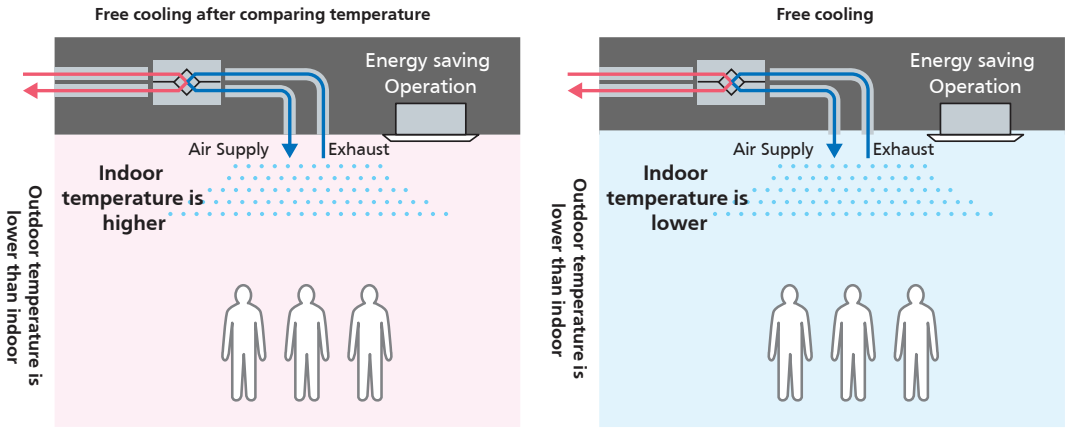
● Example of $CO_2$ sensor operation in an office room:




## Automatic Ventilation Mode Switching (Bypass control) with Humidity sensor

Suitable ventilation mode depending on condition will be switched automatically.

The ventilation unit detects room temperature and outside air temperature, then automatically switches to suitable ventilation mode to provide higher energy-savings. By installing humidity sensor (optional item), the mode will be switched automatically based on the amount of heat (energy) and discomfort index to further improve energy saving and comfort. *1




*1 "Energy saving ventilation mode" or "Comfortable ventilation mode" can be selected by local setting.

# Technical Specifications

VRV α™

| Unit | | | | | | |
|---|---|---|---|---|---|---|
| MODEL | | | | VAM250HVE | VAM500HVE | VAM650HVE |
| Power Supply | | | | 1-phase, 220-240 V/220V, 50/60 Hz | | |
| Temp. Exchange Efficiency (50/60 Hz) | For Cooling | Ultra-High | % | 60.5 / 60.5 | 61.5 / 61.5 | 59.5 / 59.5 |
| | | High | | 60.5 / 60.5 | 61.5 / 61.5 | 59.5 / 59.5 |
| | | Low | | 65.0 / 65.5 | 63.0 / 64.0 | 62.5 / 63.0 |
| | For Heating | Ultra-High | % | 76.5 / 76.5 | 80.0 / 80.0 | 74.5 / 74.5 |
| | | High | | 76.5 / 76.5 | 80.0 / 80.0 | 74.5 / 74.5 |
| | | Low | | 78.5 / 79.0 | 81.5 / 82.5 | 76.5 / 77.0 |
| Enthalpy Exchange Efficiency (50/60 Hz) | For Cooling | Ultra-High | % | 60.0 / 60.0 | 62.5 / 62.5 | 60.0 / 60.0 |
| | | High | | 60.0 / 60.0 | 62.5 / 62.5 | 60.0 / 60.0 |
| | | Low | | 61.5 / 62.0 | 64.0 / 65.0 | 62.5 / 63.0 |
| | For Heating | Ultra-High | % | 69.5 / 69.5 | 71.0 / 71.0 | 68.0 / 68.0 |
| | | High | | 69.5 / 69.5 | 71.0 / 71.0 | 68.0 / 68.0 |
| | | Low | | 73.0 / 73.5 | 72.5 / 73.5 | 69.5 / 71.5 |
| Power Consumption (50/60 Hz) | Heat Exchange Mode | Ultra-High | W | 126-141 / 172 | 296-326 / 390 | 381-426 / 472 |
| | | High | | 114-123 / 144 | 248-261 / 329 | 307-319 / 413 |
| | | Low | | 75-83 / 79 | 223-233 / 268 | 264-276 / 332 |
| | Bypass Mode | Ultra-High | W | 126-141 / 172 | 296-326 / 390 | 381-426 / 472 |
| | | High | | 114-123 / 144 | 248-261 / 329 | 307-319 / 413 |
| | | Low | | 75-83 / 79 | 223-233 / 268 | 264-276 / 332 |
| Sound Level (50/60 Hz) | Heat Exchange Mode | Ultra-High | dBA | 33.0-34.0 / 33.5 | 36.0-37.0 / 38.5 | 37.5-38.0 / 38.0 |
| | | High | | 31.0-32.5 /28.0 | 35.0-36.0 / 35.0 | 36.0-36.5 / 37.0 |
| | | Low | | 23.0-25.5 / 21.0 | 32.0-34.0 / 31.0 | 34.0-35.0 / 32.5 |
| | Bypass Mode | Ultra-High | dBA | 33.0-34.0 / 34.5 | 36.0-37.0 / 38.5 | 39.5-40.0 / 42.0 |
| | | High | | 31.5-32.5 / 29.0 | 35.0-36.0 / 35.0 | 38.0-38.5 / 39.0 |
| | | Low | | 23.5-25.5 / 21.5 | 32.0-34.0 / 31.0 | 35.5-36.5 / 33.5 |
| Casing | | | | Galvanised steel plate | | |
| Insulation Material | | | | Self-extinguishable polyurethane foam | | |
| Dimensions (HxWxD) | | | mm | 278 x 551 x 810 | 338 x 832 x 973 | |
| Machine Weight | | | kg | 22 | 41 | 43 |
| Heat Exchange System | | | | Air to air cross flow total heat (Sensible heat + latent heat) exchange | | |
| Heat Exchange Element Material | | | | Specially processed nonflammable paper | | |
| Air Filter | | | | Multidirectional fibrous fleeces | | |
| Fan | Type | | | Sirocco fan | | |
| | Airflow Rate (50/60 Hz) | Ultra- High | $m^3/h$ | 250 / 250 | 500 / 500 | 650 / 650 |
| | | High | | 250 / 250 | 500 / 500 | 650 / 650 |
| | | Low | | 165 / 145 | 470 / 420 | 570 / 495 |
| | External Static Pressure (50/60 Hz) | Ultra- High | Pa | 115-130 / 135 | 165-190 / 245 | 185-190 / 260 |
| | | High | | 80-90 / 60 | 140-175 / 180 | 140-155 / 210 |
| | | Low | | 35-75 / 20 | 124-155 / 127 | 108-119 / 122 |
| | Motor Output | | kW | 0.030 x 2 | 0.100 x 2 | 0.170 x 2 |
| Net Supply Airflow Ratio | | Ultra-High | % | 90 | | |
| Connection Duct Diameter | | Indoor side | mm | φ150 | φ200 | φ200 |
| | | Outdoor side | mm | | | |
| Unit Ambient Condition | | | | -15°C–50°C DB, 80%RH or less | | |

* Values for electrical current, power consumption, and efficiency are at the above above-stated airflow.
* Exchange efficiencies are values based on performance codes and air conditions that comply with JIS B8628:2017.
* Temperature exchange efficiency and enthalpy exchange efficiency vary according to the ratio of supply air and exhaust air and air conditions.
* Operation sound is an anechoic chamber conversion that complies with JISB8628:2017. When measured under actual installation conditions, the operation sound is usually greater due to ambient noise and reverberation.

# Technical Specifications

VRV α™

| Unit | | | | | | | |
|---|---|---|---|---|---|---|---|
| Model | | | | VAM800HVE | VAM1000HVE | VAM1500HVE | VAM2000HVE |
| Power Supply | | | | 1-phase, 220-240 V / 220 V, 50/60 Hz | | | |
| Temp. Exchange Efficiency (50/60 Hz) | For Cooling | Ultra-High | % | 61.5 / 61.5 | 58.0 / 58.0 | 61.5 / 61.5 | 58.5 / 58.5 |
| | | High | | 61.5 / 61.5 | 58.0 / 58.0 | 61.5 / 61.5 | 58.5 / 58.5 |
| | | Low | | 64.0 / 65.0 | 61.5 / 62.0 | 65.5 / 66.0 | 65.5 / 65.5 |
| | For Heating | Ultra-High | % | 77.5 / 77.5 | 74.0 / 74.0 | 77.5 / 77.5 | 73.5 / 73.5 |
| | | High | | 77.5 / 77.5 | 74.0 / 74.0 | 77.5 / 77.5 | 73.5 / 73.5 |
| | | Low | | 78.5 / 79.5 | 76.0 / 76.5 | 79.5 / 80.0 | 76.5 / 77.0 |
| Enthalpy Exchange Efficiency (50/60 Hz) | For Cooling | Ultra-High | % | 63.0 / 63.0 | 60.0 / 60.0 | 63.0 / 63.0 | 60.0 / 60.0 |
| | | High | | 63.0 / 63.0 | 60.0 / 60.0 | 63.0 / 63.0 | 60.0 / 60.0 |
| | | Low | | 64.5 / 65.5 | 62.0 / 62.5 | 65.5 / 66.0 | 64.5 / 64.5 |
| | For Heating | Ultra-High | % | 72.0 / 72.0 | 68.5 / 68.5 | 72.0 / 72.0 | 68.0 / 68.0 |
| | | High | | 72.0 / 72.0 | 68.5 / 68.5 | 72.0 / 72.0 | 68.0 / 68.0 |
| | | Low | | 74.0 / 75.0 | 72.0 / 72.5 | 74.0 / 75.0 | 71.0 / 71.5 |
| Power Consumption (50/60 Hz) | Heat Exchange Mode | Ultra-High | W | 644-684 / 829 | 683-736 / 883 | 1,274-1,353 / 1,645 | 1,365-1,471 / 1,763 |
| | | High | | 603-612 / 712 | 621-656 / 763 | 1,207-1,225 / 1,423 | 1,241-1,311 / 1,526 |
| | | Low | | 504-544 / 562 | 539-569 / 594 | 1,008-1,089 / 1,125 | 1,079-1,138 / 1,188 |
| | Bypass Mode | Ultra-High | W | 644-684 / 829 | 683-736 / 883 | 1,274-1,353 / 1,645 | 1,365-1,471 / 1,763 |
| | | High | | 603-612 / 712 | 621-656 / 763 | 1,207-1,225 / 1,423 | 1,241-1,311 / 1,526 |
| | | Low | | 504-544 / 562 | 539-569 / 594 | 1,008-1,089 / 1,125 | 1,079-1,138 / 1,188 |
| Sound Level (50/60 Hz) | Heat Exchange Mode | Ultra-High | dBA | 41.5-42.5 / 41.0 | 42.0-43.0 / 42.5 | 43.0-44.0/ 44.0 | 43.5-44.0 / 44.5 |
| | | High | | 39.5-41.0 / 37.0 | 40.0-41.0 / 38.0 | 41.0-42.5 / 39.0 | 41.5-43.0 / 40.0 |
| | | Low | | 36.0-38.5 / 33.0 | 38.0-39.5 / 34.5 | 38.0-40.5 / 35.0 | 39.0-41.0 / 36.5 |
| | Bypass Mode | Ultra-High | dBA | 41.5-42.5 / 41.0 | 42.0-43.0 / 42.5 | 43.0-44.0 / 44.0 | 43.5-44.0 / 44.5 |
| | | High | | 39.5-41.0 / 37.0 | 40.0-41.0 / 38.0 | 41.0-42.5 / 39.0 | 41.5-43.0 / 40.0 |
| | | Low | | 36.0-38.5 / 33.0 | 38.0-39.5 / 34.5 | 38.0-40.5 / 35.0 | 39.0-41.0 / 36.5 |
| Casing | | | | Galvanised steel plate | | | |
| Insulation Material | | | | Self-extinguishable polyurethane foam | | | |
| Dimensions (H x W x D) | | | mm | 387 x 1,012 x 1,110 | | 785 x 1,012 x 1,110 | |
| Machine Weight | | | kg | 63 | 63 | 138 | 138 |
| Heat Exchange System | | | | Air to air cross flow total heat (Sensible heat + latent heat) exchange | | | |
| Heat Exchange Element Material | | | | Specially processed nonflammable paper | | | |
| Air Filter | | | | Multidirectional fibrous fleeces | | | |
| Fan | Type | | | Sirocco fan | | | |
| | Airflow Rate (50/60 Hz) | Ultra-High | $m^3/h$ | 800 / 800 | 1,000 / 1,000 | 1,500 / 1,500 | 2,000 / 2,000 |
| | | High | | 800 / 800 | 1,000 / 1,000 | 1,500 / 1,500 | 2,000 / 2,000 |
| | | Low | | 720 /610 | 880 / 835 | 1,350 / 1,250 | 1,650 / 1,580 |
| | External Static Pressure (50/60 Hz) | Ultra-High | Pa | 210-235 / 250 | 205-225 / 220 | 195-215 / 235 | 190-210 / 210 |
| | | High | | 170-215 / 140 | 155-195 / 100 | 150-180 / 125 | 140-180 / 85 |
| | | Low | | 138-174 / 81 | 115-150 / 70 | 123-146 / 88 | 96-123 / 53 |
| | Motor Output | | kW | 0.190 x 2 | | 0.190 x 4 | |
| Net Supply Airflow Ratio | | Ultra-High | % | 90 | 90 | 90 | 90 |
| Connection Duct Diameter | | Indoor side | mm | φ250 | φ250 | φ250× 4 | φ250× 4 |
| | | Outdoor side | mm | | | (680) x (290) x 2 | (680) x (290) x 2 |
| Unit Ambient Condition | | | | -15°C–50°C DB, 80%RH or less | | | |

* Values for electrical current, power consumption, and efficiency are at the above above-stated airflow.
* Exchange efficiencies are values based on performance codes and air conditions that comply with JIS B8628:2017.
* Temperature exchange efficiency and enthalpy exchange efficiency vary according to the ratio of supply air and exhaust air and air conditions.
* Operation sound is an anechoic chamber conversion that complies with JISB8628:2017. When measured under actual installation conditions, the operation sound is usually greater due to ambient noise and reverberation.

## Note:

- Ask an authorised Daikin dealer to install Daikin products. Do not try to install the product yourself or get it installed by any unauthorised dealer. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion. Warranty of the product shall be void if not installed by an authorised Daikin dealer.
- Use only those parts and accessories supplied or specified by Daikin. Ask authorised Daikin dealer for any repair or component. Warranty of the product / component shall be void if non-specified spares are used or repaired by a non Daikin dealer.
- Please ensure to install ELCB (Earth Leakage Circuit Breaker) for outdoor units to prevent ground fault effects.
- Read the user's manual carefully before using the product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

For any enquiry, either call the numbers mentioned below or contact your nearest Daikin dealer.

### 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.

JMI-0107

JQA-1452

**About ISO 9001**

ISO 9001 is a plant certification system defined by the International Organization for Standardization (ISO) relating to quality assurance. ISO 9001 certification covers quality assurance aspects related to the "design, development, manufacture, installation, and supplementary service" of products manufactured at the plant.

EC99J2044

**About ISO 14001**

ISO 14001 is the standard defined by the International Organization for Standardization (ISO) relating to environmental management systems. Our group has been acknowledged by an internationally accredited compliance organisation as having an appropriate programme of environmental protection procedures and activities to meet the requirements of ISO 14001.


***DAIKIN AIRCONDITIONING INDIA PVT. LTD.***

12th Floor, Building No. 9, Tower A, DLF Cyber City, DLF Phase III, Gurgaon - 122 002, Haryana, India.
Tel.: 0124-4555444, Fax.: 0124-4555333

**CUSTOMER CONTACT CENTRE:**
011-40319300, 1860-180-3900
customerservice@daikinindia.com


### *SALES & SERVICE OFFICES*

Ahmedabad-Tel: 079-40013100
Bengaluru-Tel: 080-25722337/25722338
Bhubaneswar-Tel: 0674-2554677
Chandigarh-Tel: 0172-4947200/30
Chennai-Tel: 044-40807676
Cochin-Tel: 0484-4038646
Delhi-Tel: 011-43834400/5500
Ghaziabad-Tel: 0120-4205851
Indore-Tel: 0731-4005864
Jaipur-Tel: 0141-2218903/04/05/06
Karnal-Tel: 0184-4006855
Kolkata-Tel: 033-40608019/40659544
Lucknow-Tel: 0522-4309858/59/60
Ludhiana-Tel: 0161-5011122
Mumbai-Tel: 022-62321666
Patna-Tel: 0612-2582282
Pune-Tel: 020-25560300
Raipur-Tel: 0771-4911225
Secunderabad-Tel: 040-49134283
Vijayawada-Tel: 0866-295222624

Say "Hi" at 987 140 9300
Visit us at: www.daikinindia.com
Follow us on:
www.facebook.com/daikinindia
www.twitter.com/daikinindia
www.instagram.com/daikinindia
in.company/daikin–airconditioning-india-pvt.-ltd.
www.youtube.com/user/DaikinACIndia

DAIPL-2026/26-1/VRVAlpha-1A

**Scan For More Information**

- The specifications, designs, and information in this brochure are subject to change without notice.