DAIKIN

Warning

⚠

- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.

- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.

- Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any enquiries, please contact your local importer, distributor and/or retailer.

Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.

Daikin Airconditioning (Hong Kong) Ltd.

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VRV is a trademark of Daikin Industries, Ltd.
VRV Air Conditioning System is the world's first individual air conditioning system with variable refrigerant flow control and was commercialised by Daikin in 1982.
VRV is the trademark of Daikin Industries, Ltd., which is derived from the technology we call "variable refrigerant volume."

Specifications, designs and other content appearing in this brochure are current as of January 2020 but subject to change without notice.

DAIKIN

DAIKIN *VRV H* SERIES **Catalogue**

VRV H SERIES

Heat Pump 50 Hz

Heat Pump 50 Hz

R-410A

Exceeding Boundaries with Innovative Energy Savings

VRV H SERIES

First launched in Japan in 1982, the Daikin **VRV** system has been embraced by world markets for over 35 years. Now, Daikin proudly introduces the new **VRV** H series. By combining the technologies of **VRV**, VRT and VAV, we have attained both energy savings and comfortable air conditioning.

VRV+VRT+VAV

Energy savings

Uniting **VRV**, VRT and VAV technologies

Automatic refrigerant charge function

- Optimised operation efficiency
- Higher installation quality
- Easier installation

High reliability

- New inverter PC board
- Double backup operation
- Refrigerant cooling for PC board

Contents

* *VRV* is a trademark of Daikin Industries, Ltd.

New Products Information

Ceiling Mounted Cassette (Double Flow) Type P.39

Stylish unit blends easily with any interior.

FXCQ-A

- This model features a stylish flat panel with fresh white colour for a new sophisticated appearance.

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

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

Position 0
(Fixed airflow to highest position)

Swing
(Up / Down)

Ceiling Suspended Type P.49

New 125 / 140 models provide greater capacity for large spaces

FXHQ-A

- The technology of the DC fan motor, wide sirocco fan, and large heat exchanger combine for greater airflow and quiet operation.

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

- Suitable for high ceilings

4.3 m

Wall Mounted Type P.51

Stylish flat panel design harmonised with your interior décor

FXAQ-A
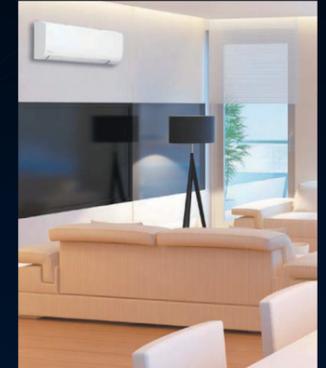
- Higher airflow is achieved to enhance comfort.

- Whisper quiet in operation, with sound levels as low as 28.5 dB(A).

Simplified Remote Controller P.77

Easy operation with new intuitive design

Using only six buttons, users have direct access to basic functions. This enables them to easily set comfort to their preference.

ON/OFF button

Operation mode selection

Temperature setting (+/-)

Airflow rate (Fan speed)

Airflow direction

BRC2E61

Saves Space and

RXYQ-A

Heat Pump

6 HP - 48 HP
(16 kW)   (135 kW)

■ Greater energy savings during low-load operation

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

Using data gathered from actual operation, Daikin discovered that air conditioning systems operate at a load factor of 50% or less for 80% of their annual operation period.*
This inspired us to develop new technologies to enhance energy efficiency during low-load operation.
Utilising these technologies, Daikin's new **VRV** H series raises the standard of energy efficiency.
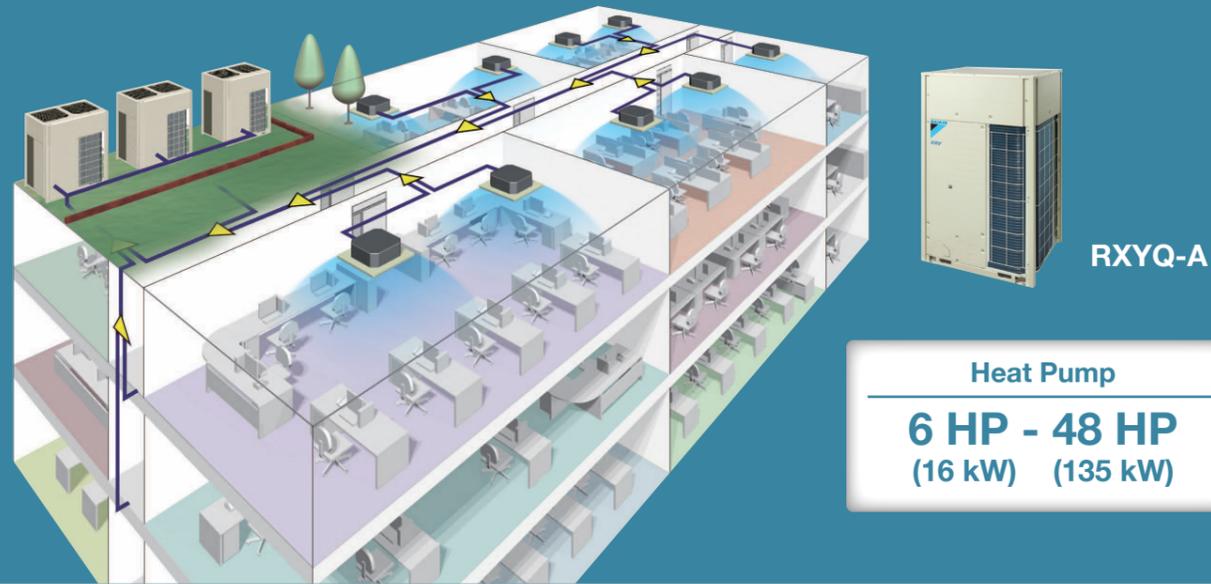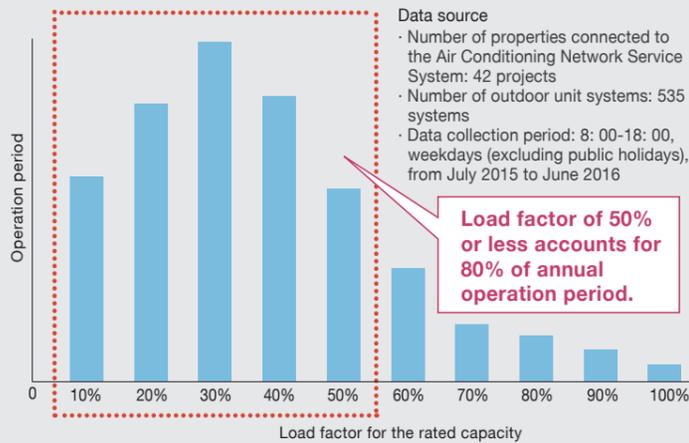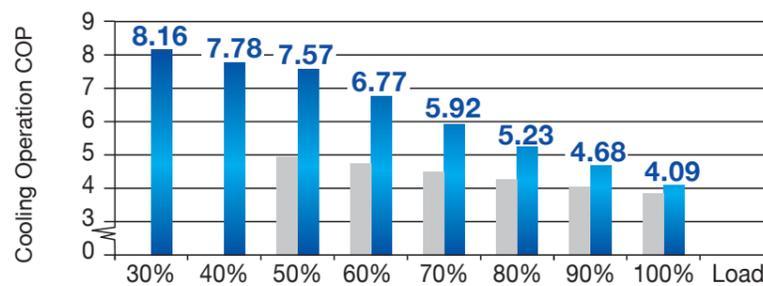
* Main factors for frequent operation at low load of 50% or lower
· Because individual control is possible for **VRV** system, air conditioning is turned OFF to unoccupied rooms such as conference rooms, private rooms, and storage rooms.
· Maximum number of people assumed at the time of design has not been reached.
· There are zones without tenants such as the tenants' office building.

•Correlation between the load factor for the rated capacity and operation time (in office buildings in Singapore)
*According to a survey by Daikin (based on Air Conditioning Network Service System data)

Data source
· Number of properties connected to the Air Conditioning Network Service System: 42 projects
· Number of outdoor unit systems: 535 systems
· Data collection period: 8: 00-18: 00, weekdays (excluding public holidays), from July 2015 to June 2016

Load factor of 50% or less accounts for 80% of annual operation period.

Operation period — Load factor for the rated capacity
0 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Higher Coefficient of Performance (COP)

COP for 10 HP

8.16	7.78	7.57	6.77	5.92	5.23	4.68	4.09	

Cooling Operation COP
30% 40% 50% 60% 70% 80% 90% 100% Load

VRV IV (RXYQ10T)

VRV H SERIES

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

Annual power consumption
14%* lower

* Simulation conditions :
• Location : Bangkok, Thailand
• System : Outdoor unit (10 HP) x 1
  Indoor unit (2 HP, Round Flow with Sensing type) x 5
• Operation time : 8:00-20:00 5 days/week
• Outdoor units :
  New model : RXYQ10A (**VRV** H series)
  Conventional model : RXYQ10T (**VRV** IV)

Delivers Excellent Performance

■ Advanced technologies for greater energy savings

VRV+VRT+VAV

By uniting advanced **software** and **hardware** technologies for greater energy savings during actual operation and combining the technologies of **VRV**, VRT and VAV, we have attained both energy savings and comfortable air conditioning.

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

Software technology

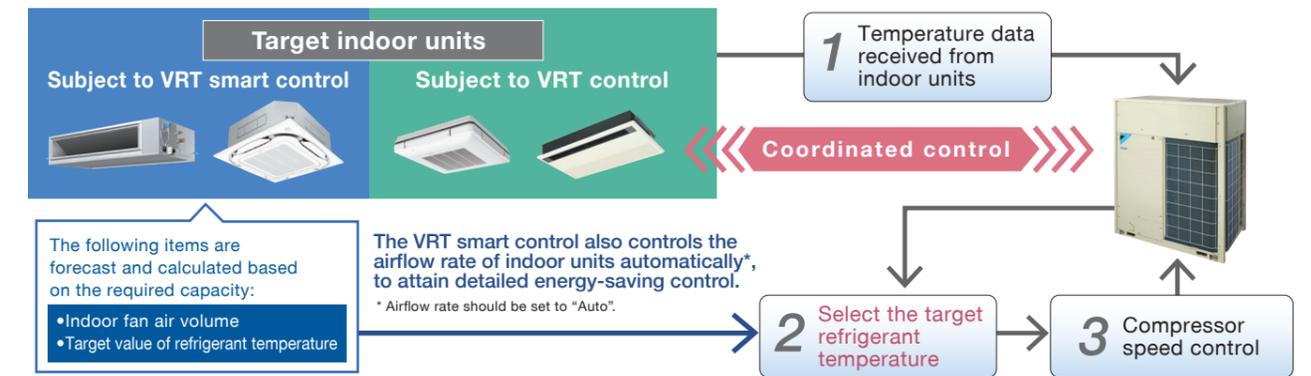**Optimally supply only for the needed capacity of indoor units**

Daikin developed VRT smart control by combining air volume control (VAV: Variable Air Volume) for indoor units with conventional VRT control, which optimises compressor speed by calculating the required load for the entire system and optimal target refrigerant temperature based on data sent from each indoor unit. Coordination with the air volume control reduces compressor load and minimises operation loss based on detailed control. VRT smart control ensures energy savings and comfortable air conditioning to meet actual operating conditions.

VRT Smart Control Function movie

•Overview of the control (system control flow)
Different automatic energy-saving refrigerant control applies depending on the indoor units connected.
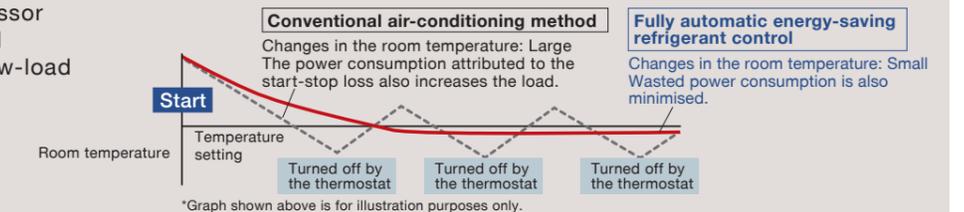

Target indoor units

Subject to VRT smart control   **Subject to VRT control**

1 Temperature data received from indoor units

Coordinated control

The following items are forecast and calculated based on the required capacity:
•Indoor fan air volume
•Target value of refrigerant temperature

The VRT smart control also controls the airflow rate of indoor units automatically*, to attain detailed energy-saving control.
* Airflow rate should be set to "Auto".

2 Select the target refrigerant temperature

3 Compressor speed control

The smooth control (which keeps the compressor running) saves energy and ensures comfort during low-load operation.

•Changes in the air-conditioned room temperature during low-load operation*

Conventional air-conditioning method
Changes in the room temperature: Large
The power consumption attributed to the start-stop loss also increases the load.

Fully automatic energy-saving refrigerant control
Changes in the room temperature: Small
Wasted power consumption is also minimised.

Start
Room temperature — Temperature setting
Turned off by the thermostat Turned off by the thermostat Turned off by the thermostat

*Graph shown above is for illustration purposes only.

Note:
•For the classification of indoor units (VRT smart control and VRT control), refer to page 23-24.
•If a system has indoor units subject to both VRT smart and VRT control, the system is operated under VRT control.
•If a system has both outdoor-air processing air conditioners and outdoor-air processing type indoor units, VRT smart control and VRT control are disabled.

Optimum utilisation of VRT Smart Control and VRT Control

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

•When selecting indoor units
Indoor units are installed in a system so that they operate largely under the same conditions.
Energy efficiency decreases for the installation patterns shown below.
Example:
  1) A load imbalance occurs because an indoor unit in the same system is installed near the perimeter of the room or in the vicinity of a room entrance.
  2) Different operating hours for indoor units.

•Time of Use
  1. Energy efficiency decreases when the set temperature of a specified indoor unit is excessively lowered during cooling operation or excessively raised during heating operation.
  2. The airflow rate setting is set to "Auto" during VRT Smart Control.

Main Features

Achieves Space Saving & Excellent Performance

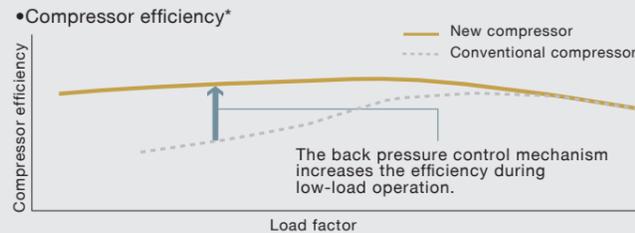**VRV H SERIES**

New Scroll Compressor*

Hardware technology

Refrigerant leakage is minimised during low-load operation.

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

•Compressor efficiency*

New Scroll Compressor movie

New compressor
- - - - - Conventional compressor

Compressor efficiency

The back pressure control mechanism increases the efficiency during low-load operation.

Load factor

*Graph shown above is for illustration purposes only.

Back pressure control mechanism

Conventional mechanism

The orbiting scroll is engaged by the pressure difference between high and low pressures.
The force engaging the orbiting scroll decreases during low-load operation, resulting in compression leakage from movable parts.

**New intermediate pressure mechanism**

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

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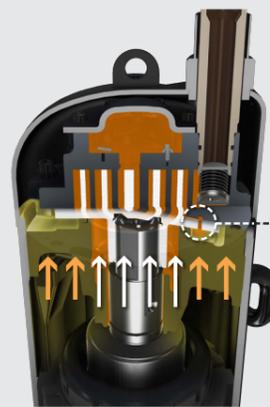
The intermediate pressure maintains pressure on the orbiting scroll during low-load operation.

Intermediate pressure adjustment port

The intermediate pressure (back pressure) optimises the pressure on the orbiting scroll depending on the operating condition.
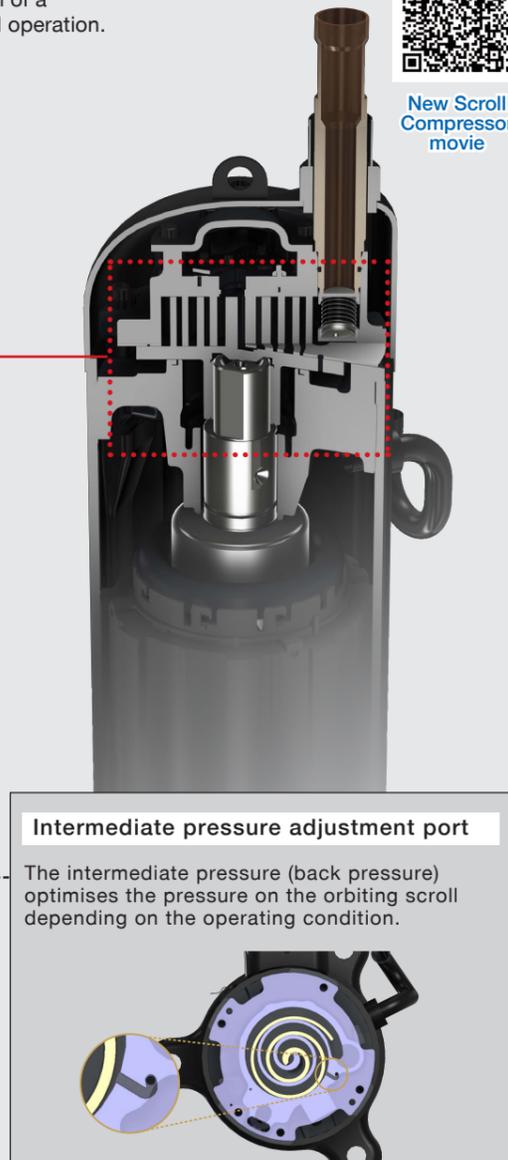
* The new mechanism is used in RXYQ10 and 12A models.

Advanced oil temperature control

Standby power consumption is reduced

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

* Operation calculation conditions: **VRV** H series 14 HP Location: Singapore Operation time: 08:00–18:00 on weekdays.

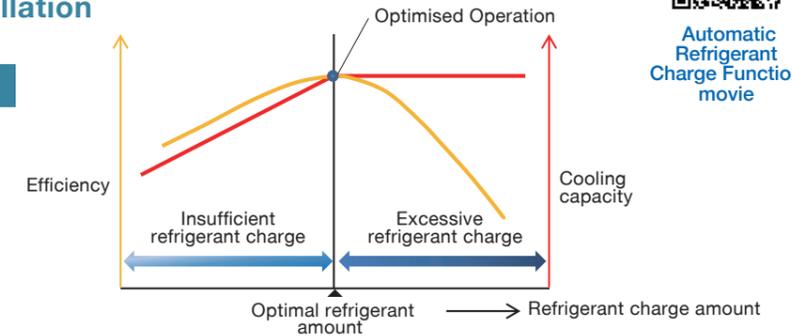## ■ Automatic refrigerant charge function

Contribute to optimised operation efficiency, higher quality and easier installation

Automatic Refrigerant Charge Function movie

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.

Optimised Operation

Efficiency

Cooling capacity

Insufficient refrigerant charge

Excessive refrigerant charge

Optimal refrigerant amount

Refrigerant charge amount

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 by simply pressing a 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.

VRV IV

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

VRV H SERIES

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

Automatic completion by proper refrigerant amount

Monitoring refrigerant charging is unnecessary

No recalculation of charge amounts due to minor design changes locally

The automatic refrigerant charge operation can also be used again when adding or replacing indoor units or even when changing the layout after installation.

*There are conditions in the range of ambient temperature in which the automatic refrigerant charge can be used. Refer to the installation manual for details.
*Pre-charge amount changes according to conditions, and pre-charging is unnecessary when necessary refrigerant amount is 4 kg and under. Please refer to the installation manual for details.
*The refrigerant amount that can be automatically charged may differ from the additional refrigerant amount that is provided from calculations, but there are no problems in performance and quality.

■ High reliability

New inverter PC board

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

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

Conventional inverter

New inverter PC board

Electrolytic capacitors

Film capacitor

Main Features
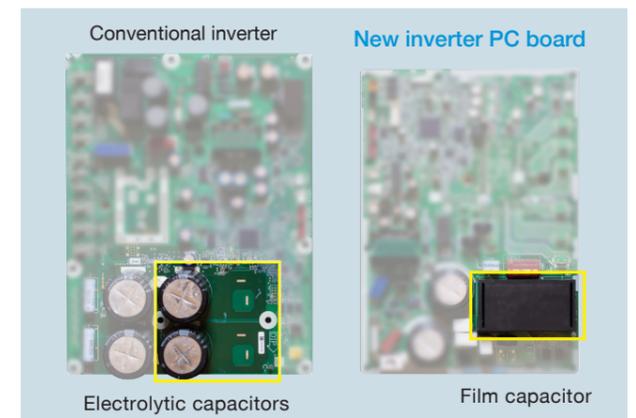
■ Comfort

Low operation sound

High efficiency heat exchanger helps to achieve low operation sound.

					Sound level(dB(A))
		6/8 HP	10 HP	12 HP	14/16 HP
VRV H SERIES		56	57	59	60

Large airflow, high static pressure and quiet technology

Advanced analytic technologies are utilised to optimise fan design and increase airflow rate and high external static pressure.
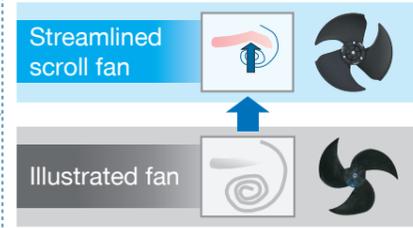
Streamlined air grille
It promotes the discharge of swirling airflow, further reducing pressure loss.
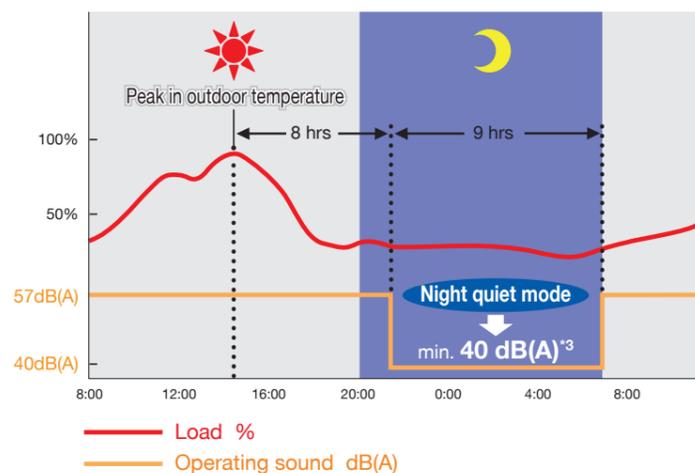
Streamlined scroll fan
The curvature of each fan blade edge reduces both vibration and pressure loss.

Streamlined scroll fan

Illustrated fan

Nighttime quiet operation function

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

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

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

Peak in outdoor temperature
8 hrs
9 hrs
100%
50%
57dB(A)
40dB(A)
Night quiet mode
min. 40 dB(A)*3
8:00 12:00 16:00 20:00 0:00 4:00 8:00
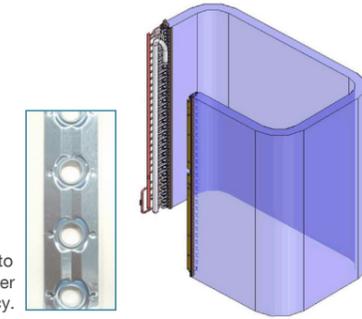
— Load %
— Operating sound dB(A)

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

■ Compact design with high performance

Highly integrated heat exchanger

The unique 4-sided all round heat exchanger ensures sufficient surface area for the heat exchanger. This improves the heat exchanger performance without increasing the footprint.
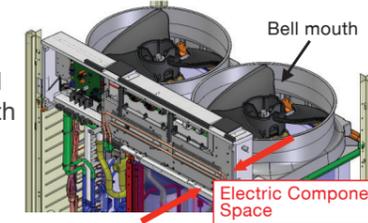
4-sided heat exchanger
High efficiency heat exchanger is realised by reducing airflow resistance with adoption of small cooling tubes with a diameter of f7.

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

Optimised inner design to ensure smooth airflow

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

Bell mouth

Electric Component Space

Easy maintenance

Electrical components

The electrical components are strategically located on the top which eases the maintenance process.
Moreover, the heat exchanger on the front side can be used effectively to improve its performance.

Sufficient cooling for electrical components

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

Positive pressure space

Negative pressure space

• High pressure since air enters near the fan blower inlet
High pressure difference
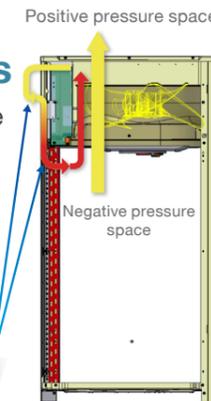
Eliminate suction resistance issue

Without affecting the fan volume, the electric components are designed to be at the top and this ulitises dead space. This eliminates the problem of suction resistance.

Even negative pressure space
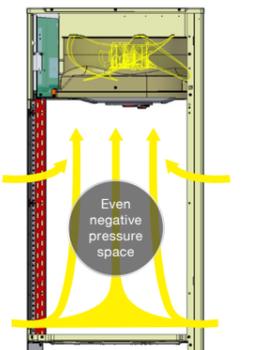
High reliability at high ambient temperatures

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

PC Board
Heat
Power Module
Refrigerant
Refrigerant Jacket

Using refrigerant to cool the inverter power module helps minimise the size of the electronic components, and this results in reduction of airflow resistance and high efficiency of the heat exchanger.
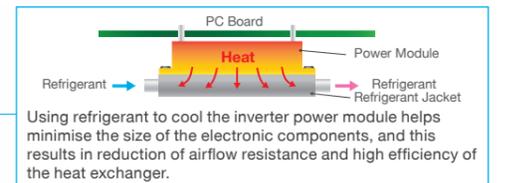
Control board failure ratio at stable operation is reduced.

Outer Rotor DC Motor (ODM)

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

Advantages of ODM

Thanks to the large diameter of the rotor,
① Large torque with same electromagnetic force
② Stable rotation in all ranges and can be operated with small number of rotations

ODM
(Outer Type)
UNIQUE
Rotor
Conventional Motor
(Inner Type)
Rotor
F
F

HIGH TORQUE with **low energy** ➜ MORE efficient
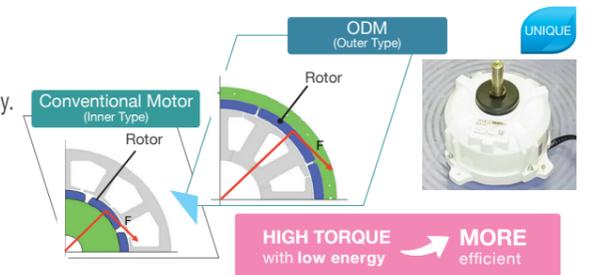
■ More options for installation location

Long piping length

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

For connection of only VRV indoor units

Between the outdoor branch and the last outdoor unit
Max. 13 m

Max. total piping length **1000 m**

Between the outdoor units
Max. 5 m

Max. equivalent piping length **190 m**

Max. level difference between the outdoor units and the indoor units
90 m*2

Between the first indoor branch and the farthest indoor unit
Max. 90 m*1

Max. level difference between the indoor units
30 m

Note: The above is just a schematic diagram.

Maximum allowable piping length	Actual piping length (Equivalent)	165 m (190 m)
	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 level difference	Between the outdoor units (Multiple use)	5 m
	Between the indoor units	30 m
	Between the outdoor units and the indoor units	90 m*2

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

*2. When level differences are 50 m or more, the diameter of the main liquid piping size must be increased. If the outdoor unit is above the indoor unit, a dedicated setting on the outdoor unit is required. Refer to the Engineering Data Book and contact your local dealer for more information.

Connection ratio

Connection capacity at maximum is 200%.

Connection ratio
50%–200%

Connection ratio =
Total capacity index of the indoor units / Capacity index of the outdoor units

Conditions of VRV indoor unit connection capacity

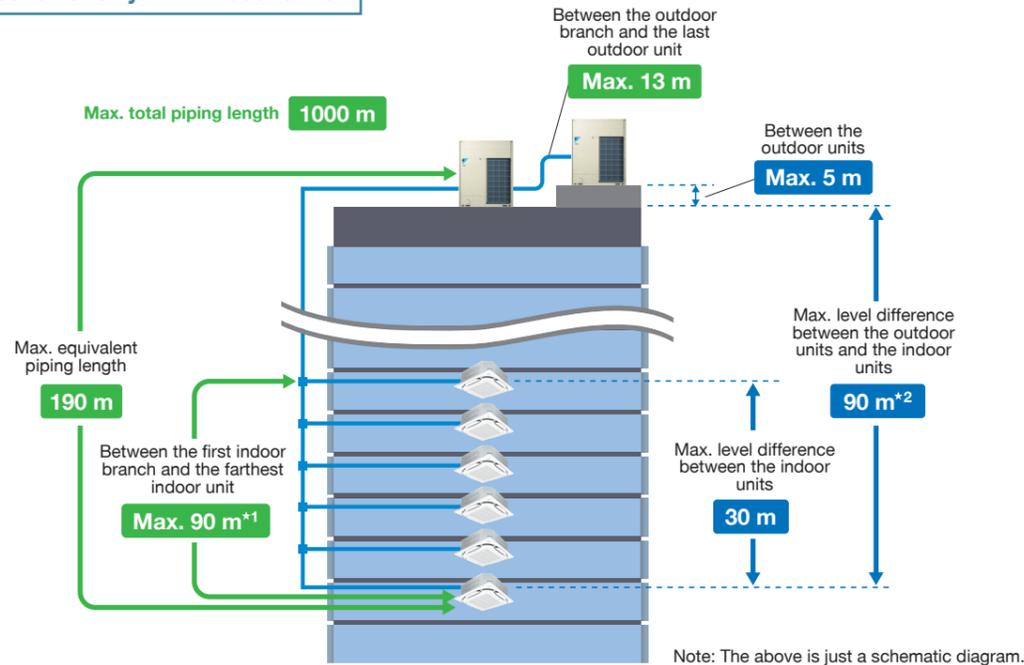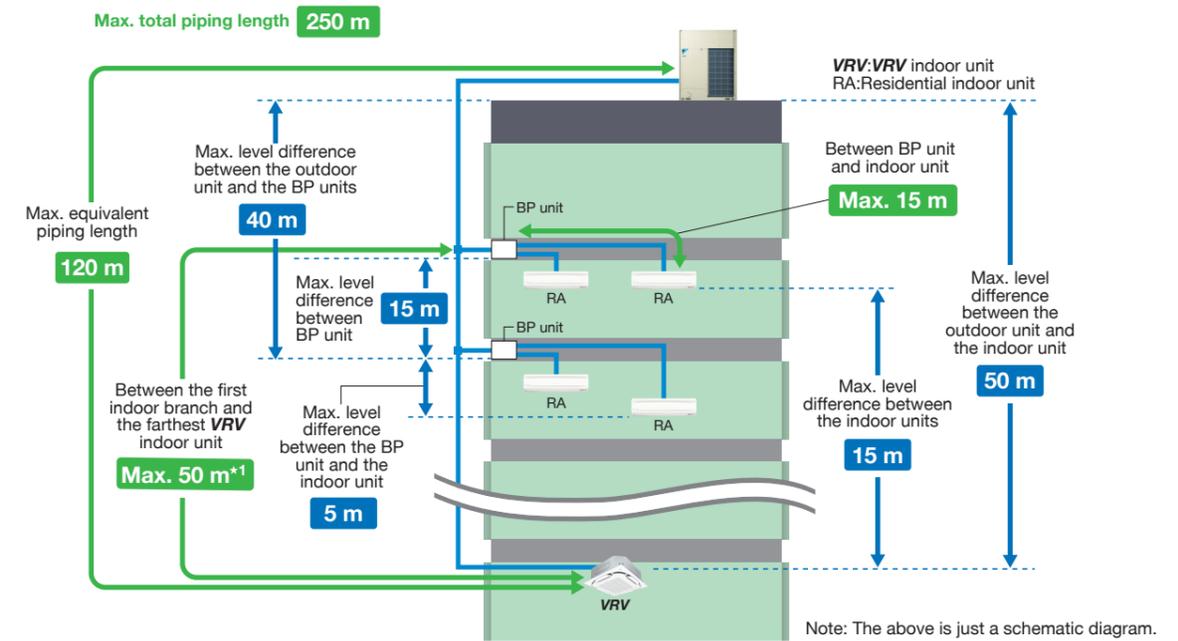| Applicable VRV indoor units	FXDQ, FXSQ, FXMQ-PA, FXAQ models	Other VRV indoor unit models*1
Single outdoor units	**200%**	200%
Double outdoor units		160%
Triple outdoor units		130%

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

Note: If the operational capacity of indoor units is more than 130%, low airflow operation is enforced in all the indoor units.

*Refer to page 17 for outdoor unit combination details.

For mixed combination of VRV and residential indoor units

Max. total piping length **250 m**

VRV:VRV indoor unit
RA:Residential indoor unit

Max. level difference between the outdoor unit and the BP units
40 m

Between BP unit and indoor unit
Max. 15 m

Max. equivalent piping length **120 m**

BP unit

Max. level difference between BP unit
15 m

Max. level difference between the outdoor unit and the indoor unit
50 m

Between the first indoor branch and the farthest *VRV* indoor unit
Max. 50 m*1

Max. level difference between the BP unit and the indoor unit
5 m

Max. level difference between the indoor units
15 m

Note: The above is just a schematic diagram.

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

Maximum allowable piping length	Actual piping length (Equivalent)		100 m (120 m)
	Total piping length		250 m
	Between BP unit and indoor unit	If indoor unit capacity index < 60.	2 m–15 m
		If indoor unit capacity index is 60.	2 m–12 m
		If indoor unit capacity index is 71.	2 m–8 m
	Between the first indoor branch and the farthest BP unit or between the first indoor branch and the farthest *VRV* indoor unit		50 m*1
Maximum allowable level difference	Between outdoor unit and the first indoor branch		5 m
	Between the indoor units		15 m
	Between BP units		15 m
	Between the outdoor unit and the indoor unit	If the outdoor unit is above.	50 m
		If the outdoor unit is below.	40 m
	Between the outdoor unit and the BP unit		40 m
	Between the BP unit and the indoor unit		5 m

*1. If the piping length between the first indoor branch and BP unit or *VRV* indoor unit is over 20 m, it is necessary to increase the gas and liquid piping size between the first indoor branch and BP unit or *VRV* indoor unit. If the piping diameter of the sized up piping exceeds the diameter of the piping before the first indoor branch kit, then the latter also requires a liquid piping and gas piping size up. Please refer to Engineering Data Book for details.

*When a mixed combination of *VRV* and residential indoor units is connected or when only residential indoor units are connected, connection ratio must be 80% to 130%. Refer to page 18 for outdoor unit combination details.

High external static pressure

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

78.4 Pa
● More options in the opening/angle of louvre
● Outstanding heat dissipation effect in both hierarchical and intensive arrangement

■ More accurate test operation and stable system

Efficient automatic test operation

Daikin *VRV* H series incorporates a simplified and efficient test operation function, that not only greatly accelerates the installation process, but also effectively improves the field setting quality.
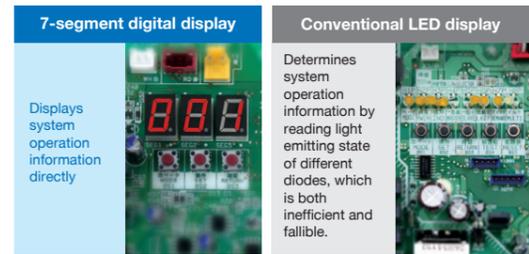
- Automatically checks the wiring between outdoor units and indoor units to confirm whether there is defective wiring.
- Confirms piping length to optimise operation.
- Automatically checks whether the stop valve in each outdoor unit is functioning normally to ensure the smooth operation of air conditioning system.

Automatic check

Wiring check

Piping check

Stop valve check
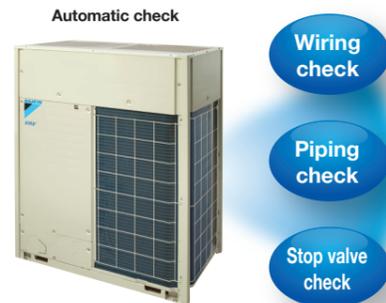
■ Simplified commissioning and after-sales service

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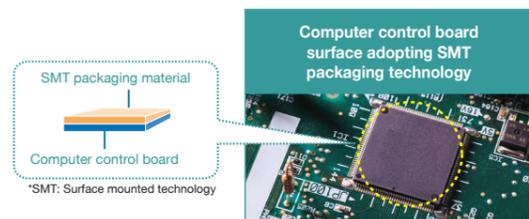
VRV H series utilises 7-segment luminous digital tubes to display system operation information, enabling the operational state to be visually displayed whilst facilitating simplified commissioning and after-sales service.

7-segment digital display	Conventional LED display
Displays system operation information directly	Determines system operation information by reading light emitting state of different diodes, which is both inefficient and fallible.

■ Advanced control main PC board
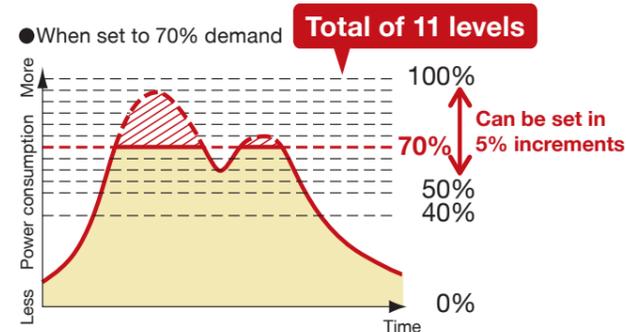
SMT* packaging technology

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

SMT packaging material

Computer control board

*SMT: Surface mounted technology

Computer control board surface adopting SMT packaging technology

■ I-demand function

Limit to power consumption can be set precisely to one of 11 levels. Peak power cut-off can be accomplished according to each user situation.

*Set on the circuit board of the outdoor unit.

● When set to 70% demand

Total of 11 levels

100%
70%
50%
40%
0%

Can be set in 5% increments

Power consumption — More / Less
Time

■ Wide operation temperature range

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

49°CDB
-5°CDB
Cooling
Outdoor temperature (°CDB)

15.5°CWB
-20°CWB
Heating
Outdoor temperature (°CWB)
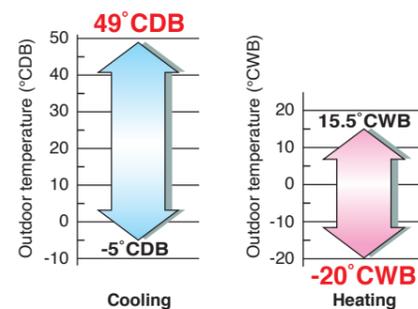
■ Automatic sequencing operation

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

Stage 1 | Stage 2 | Stage 3

Automatic sequencing

Priority: 1 2 3 | Priority: 3 1 2 | Priority: 2 3 1
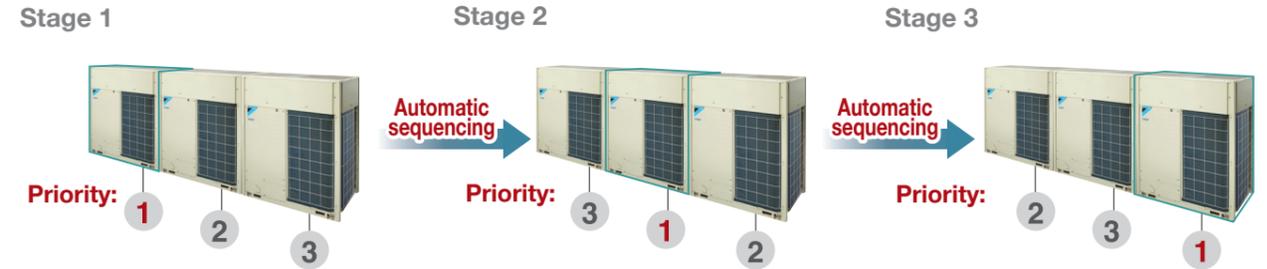
■ Double backup operation functions

Daikin *VRV* H series outdoor unit boasts double backup operation functions, which can secure the use of air conditioners in this area to the greatest extent in an emergency by enabling double backup operation functions even if failure occurs in a set of air conditioning equipment.
In the event of a failure, emergency operation can be conveniently enabled to allow the remaining system to operate in a limited fashion.

Unit backup operation function

If one of the units in a multiple outdoor system malfunctions, the other outdoor units provide emergency operation until repairs can be made.

* For systems composed of two or more outdoor units.

Malfunction

Emergency operation

Compressor backup operation function

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

* For single outdoor unit system RXYQ14/16AYM models. On-site settings are required using the printed circuit board of the outdoor unit.

Emergency operation

Malfunction
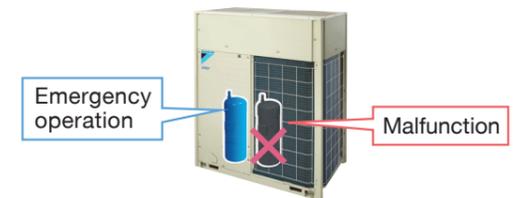
■ Ease of maintenance

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

Area A | Area B | Area C
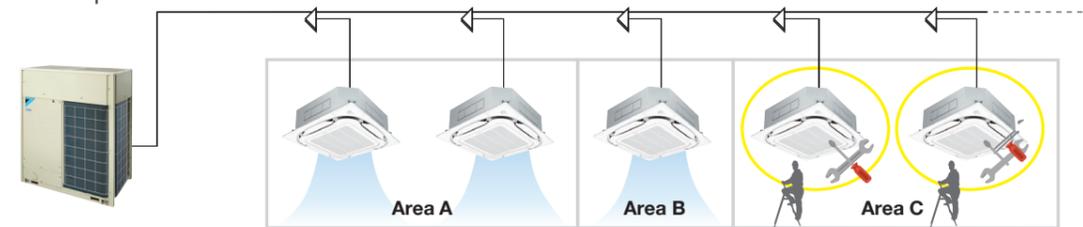
* Field setting is required.
 This feature does not apply to residential indoor unit connection.
 For more information, please contact Daikin sales office.

■ *VRV* H Series Outdoor Units

The outdoor unit capacity is up to 48 HP (135 kW) in increment of 2 HP.

- *VRV* H series outdoor unit offers a high capacity of up to 48 HP, responding to the needs of large-sized building.
- The single outdoor unit has only 2 different shapes and dimensions, not only simplifying the design process, but also bringing the system flexibility to a new level.
- With the outdoor unit capacity increased in increment of 2 HP, customers' needs can be precisely met.

Lineup

HP		12	14	16	18	20	22	24	26	28	30	32
VRV H SERIES High-COP Type	Double outdoor units	●	●	●								
	Triple outdoor units				●	●	●	●	●	●	●	●

High-COP Type

·Double Outdoor Units

12, 14, 16 HP

RXYQ12AHYMN
RXYQ14AHYMN
RXYQ16AHYMN

·Triple Outdoor Units

18, 20, 22, 24, 26, 28, 30, 32 HP

RXYQ18AHYMN RXYQ26AHYMN
RXYQ20AHYMN RXYQ28AHYMN
RXYQ22AHYMN RXYQ30AHYMN
RXYQ24AHYMN RXYQ32AHYMN

Lineup

HP		6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
VRV H SERIES Standard Type	Single outdoor units	●	●	●	●	●	●																
	Double outdoor units							●	●	●	●	●	●	●	●								
	Triple outdoor units															●	●	●	●	●	●	●	●

Standard Type

·Single Outdoor Units

6, 8, 10, 12 HP

14, 16 HP

RXYQ6AYM   RXYQ10AYM
RXYQ8AYM   RXYQ12AYM

RXYQ14AYM
RXYQ16AYM

·Double Outdoor Units

18, 20, 22, 24 HP

26, 28, 30 HP

32 HP

RXYQ18AYMN RXYQ22AYMN
RXYQ20AYMN RXYQ24AYMN

RXYQ26AYMN RXYQ30AYMN
RXYQ28AYMN

RXYQ32AYMN

·Triple Outdoor Units

34, 36 HP

38, 40 HP

RXYQ34AYMN   RXYQ36AYMN

RXYQ38AYMN   RXYQ40AYMN

42, 44 HP

46, 48 HP

RXYQ42AYMN   RXYQ44AYMN

RXYQ46AYMN   RXYQ48AYMN

Outdoor Unit Combinations

For connection of *VRV* indoor units only

High-COP Type

HP	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units*2	Maximum number of connectable indoor units*2
12 HP	32.0	300	RXYQ12AH	RXYQ6A × 2	BHFP22P100	150 to 390 (480)	19 (24)
14 HP	38.4	350	RXYQ14AH	RXYQ6A + RXYQ8A		175 to 455 (560)	22 (28)
16 HP	44.8	400	RXYQ16AH	RXYQ8A × 2		200 to 520 (640)	26 (32)
18 HP	48.0	450	RXYQ18AH	RXYQ6A × 3	BHFP22P151	225 to 585 (585)	29 (29)
20 HP	54.4	500	RXYQ20AH	RXYQ6A × 2 + RXYQ8A		250 to 650 (650)	32 (32)
22 HP	60.8	550	RXYQ22AH	RXYQ6A + RXYQ8A × 2		275 to 715 (715)	35 (35)
24 HP	67.2	600	RXYQ24AH	RXYQ8A × 3		300 to 780 (780)	39 (39)
26 HP	72.8	650	RXYQ26AH	RXYQ8A × 2 + RXYQ10A		325 to 845 (845)	42 (42)
28 HP	78.3	700	RXYQ28AH	RXYQ8A × 2 + RXYQ12A		350 to 910 (910)	45 (45)
30 HP	83.9	750	RXYQ30AH	RXYQ8A + RXYQ10A + RXYQ12A		375 to 975 (975)	48 (48)
32 HP	89.4	800	RXYQ32AH	RXYQ8A + RXYQ12A × 2		400 to 1,040 (1,040)	52 (52)

Standard Type

HP	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units*2	Maximum number of connectable indoor units*2
6 HP	16.0	150	RXYQ6A	RXYQ6A	—	75 to 195 (300)	9 (15)
8 HP	22.4	200	RXYQ8A	RXYQ8A	—	100 to 260 (400)	13 (20)
10 HP	28.0	250	RXYQ10A	RXYQ10A	—	125 to 325 (500)	16 (25)
12 HP	33.5	300	RXYQ12A	RXYQ12A	—	150 to 390 (600)	19 (30)
14 HP	40.0	350	RXYQ14A	RXYQ14A	—	175 to 455 (700)	22 (35)
16 HP	45.0	400	RXYQ16A	RXYQ16A	—	200 to 520 (800)	26 (40)
18 HP	50.4	450	RXYQ18A	RXYQ8A + RXYQ10A	BHFP22P100	225 to 585 (720)	29 (36)
20 HP	55.9	500	RXYQ20A	RXYQ8A + RXYQ12A		250 to 650 (800)	32 (40)
22 HP	61.5	550	RXYQ22A	RXYQ10A + RXYQ12A		275 to 715 (880)	35 (44)
24 HP	67.0	600	RXYQ24A	RXYQ12A × 2		300 to 780 (960)	39 (48)
26 HP	73.5	650	RXYQ26A	RXYQ12A + RXYQ14A		325 to 845 (1,040)	42 (52)
28 HP	78.5	700	RXYQ28A	RXYQ12A + RXYQ16A		350 to 910 (1,120)	45 (56)
30 HP	83.5	750	RXYQ30A	RXYQ12A + RXYQ18A		375 to 975 (1,200)	48 (60)
32 HP	90.0	800	RXYQ32A	RXYQ16A × 2		400 to 1,040 (1,280)	52 (64)
34 HP	95.0	850	RXYQ34A	RXYQ10A + RXYQ12A × 2	BHFP22P151	425 to 1,105 (1,105)	55 (55)
36 HP	101	900	RXYQ36A	RXYQ12A × 3		450 to 1,170 (1,170)	58 (58)
38 HP	107	950	RXYQ38A	RXYQ12A × 2 + RXYQ14A		475 to 1,235 (1,235)	61 (61)
40 HP	112	1,000	RXYQ40A	RXYQ12A × 2 + RXYQ16A		500 to 1,300 (1,300)	64 (64)
42 HP	118	1,050	RXYQ42A	RXYQ10A + RXYQ16A × 2		525 to 1,365 (1,365)	
44 HP	124	1,100	RXYQ44A	RXYQ12A + RXYQ16A × 2		550 to 1,430 (1,430)	
46 HP	130	1,150	RXYQ46A	RXYQ14A + RXYQ16A × 2		575 to 1,495 (1,495)	
48 HP	135	1,200	RXYQ48A	RXYQ16A × 3		600 to 1,560 (1,560)	

Note: *1. For multiple connection, 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 outdoor units, 160% for double outdoor units, and 130% for triple outdoor units. Refer to page 11 for notes on connection capacity of indoor units.

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

Model name*1	kW	HP	Capacity index	Total capacity index of connectable indoor units*2 Combination (%)*2			Maximum number of connectable indoor units
				80%	100%	130%	
RXYQ6AYM	16.0	6	150	120	150	195	9
RXYQ8AYM	22.4	8	200	160	200	260	13
RXYQ10AYM	28.0	10	250	200	250	325	16
RXYQ12AYM	33.5	12	300	240	300	390	19
RXYQ14AYM	40.0	14	350	280	350	455	22
RXYQ16AYM	45.0	16	400	320	400	520	26

Note: *1. Only single outdoor unit (RXYQ6-16AYM) can be connected.
 *2. Total capacity index of connectable indoor units must be 80%–130% of the capacity index of the outdoor unit.

Outdoor Unit Lineup

VRV H SERIES

■ *VRV* H Series Outdoor Units RXYQ-A

High-COP Type

Model			RXYQ12AHYMN	RXYQ14AHYMN	RXYQ16AHYMN		RXYQ18AHYMN	RXYQ20AHYMN	RXYQ22AHYMN
Combination units			RXYQ6AYM	RXYQ6AYM	RXYQ8AYM		RXYQ6AYM	RXYQ6AYM	RXYQ6AYM
			RXYQ6AYM	RXYQ8AYM	RXYQ8AYM		RXYQ6AYM	RXYQ6AYM	RXYQ8AYM
			–	–	–		RXYQ6AYM	RXYQ8AYM	RXYQ8AYM
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz				3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz		
Cooling capacity	Btu/h		109,000	131,000	153,000		164,000	186,000	207,000
	kW		32.0	38.4	44.8		48.0	54.4	60.8
Heating capacity	Btu/h		123,000	147,000	171,000		184,000	208,000	232,000
	kW		36.0	43.0	50.0		54.0	61.0	68.0
Power consumption	Cooling	kW	6.76	8.55	10.3		10.1	11.9	13.7
	Heating	kW	7.46	9.40	11.3		11.2	13.1	15.1
Capacity control	%		12-100	11-100	10-100		8-100	8-100	7-100
Casing colour			Ivory white (5Y7.5/1)				Ivory white (5Y7.5/1)		
Compressor	Type		Hermetically sealed scroll type				Hermetically sealed scroll type		
	Motor output	kW	(2.4×1)+(2.4×1)	(2.4×1)+(3.4×1)	(3.4×1)+(3.4×1)		(2.4×1)+(2.4×1)+(2.4×1)	(2.4×1)+(2.4×1)+(3.4×1)	(2.4×1)+(3.4×1)+(3.4×1)
Airflow rate	m³/min		119+119	119+178	178+178		119+119+119	119+119+178	119+178+178
Dimensions (H×W×D)	mm		(1,657×930×765)+(1,657×930×765)				(1,657×930×765)+(1,657×930×765)+(1,657×930×765)		
Machine weight	kg		185+185				185+185+185		
Sound level	dB(A)		59				61		
Operation range	Cooling	°CDB	-5 to 49				-5 to 49		
	Heating	°CWB	-20 to 15.5				-20 to 15.5		
Refrigerant	Type		R-410A				R-410A		
	Charge	kg	6.9+6.9	6.9+7.0	7.0+7.0		6.9+6.9+6.9	6.9+6.9+7.0	6.9+7.0+7.0
Piping connections	Liquid	mm	ø12.7 (Brazing)				ø15.9 (Brazing)		
	Gas	mm	ø28.6 (Brazing)				ø28.6 (Brazing)		

Model			RXYQ24AHYMN	RXYQ26AHYMN	RXYQ28AHYMN		RXYQ30AHYMN	RXYQ32AHYMN
Combination units			RXYQ8AYM	RXYQ8AYM	RXYQ8AYM		RXYQ8AYM	RXYQ8AYM
			RXYQ8AYM	RXYQ8AYM	RXYQ8AYM		RXYQ10AYM	RXYQ12AYM
			RXYQ8AYM	RXYQ10AYM	RXYQ12AYM		RXYQ12AYM	RXYQ12AYM
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz				3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz	
Cooling capacity	Btu/h		229,000	248,000	267,000		286,000	305,000
	kW		67.2	72.8	78.3		83.9	89.4
Heating capacity	Btu/h		256,000	278,000	299,000		321,000	341,000
	kW		75.0	81.5	87.5		94.0	100
Power consumption	Cooling	kW	15.5	17.2	19.0		20.7	22.6
	Heating	kW	17.0	18.6	20.3		21.8	23.5
Capacity control	%		7-100	5-100	5-100		5-100	5-100
Casing colour			Ivory white (5Y7.5/1)				Ivory white (5Y7.5/1)	
Compressor	Type		Hermetically sealed scroll type				Hermetically sealed scroll type	
	Motor output	kW	(3.4×1)+(3.4×1)+(3.4×1)	(3.4×1)+(3.4×1)+(4.5×1)	(3.4×1)+(3.4×1)+(5.5×1)		(3.4×1)+(4.5×1)+(5.5×1)	(3.4×1)+(5.5×1)+(5.5×1)
Airflow rate	m³/min		178+178+178		178+178+191		178+178+191	178+191+191
Dimensions (H×W×D)	mm		(1,657×930×765)+(1,657×930×765)+(1,657×930×765)				(1,657×930×765)+(1,657×930×765)+(1,657×930×765)	
Machine weight	kg		185+185+185	185+185+200			185+200+200	
Sound level	dB(A)		61		62		62	63
Operation range	Cooling	°CDB	-5 to 49				-5 to 49	
	Heating	°CWB	-20 to 15.5				-20 to 15.5	
Refrigerant	Type		R-410A				R-410A	
	Charge	kg	7.0+7.0+7.0	7.0+7.0+7.4	7.0+7.0+7.6		7.0+7.4+7.6	7.0+7.6+7.6
Piping connections	Liquid	mm	ø15.9 (Brazing)	ø19.1 (Brazing)			ø19.1 (Brazing)	
	Gas	mm	ø34.9 (Brazing)				ø34.9 (Brazing)	

Note: Specifications are based on the following conditions;
• Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
• Heating: Indoor temp.: 20°CDB, 15°CWB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.

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

Specifications

■ *VRV* H Series Outdoor Units ▮ RXYQ-A

Standard Type

Model			RXYQ6AYM	RXYQ8AYM	RXYQ10AYM	RXYQ12AYM	RXYQ14AYM		RXYQ16AYM	RXYQ18AYMN	RXYQ20AYMN	RXYQ22AYMN	RXYQ24AYMN	RXYQ26AYMN
Combination units			–	–	–	–	–		–	RXYQ8AYM	RXYQ8AYM	RXYQ10AYM	RXYQ12AYM	RXYQ12AYM
			–	–	–	–	–		–	RXYQ10AYM	RXYQ12AYM	RXYQ12AYM	RXYQ12AYM	RXYQ14AYM
			–	–	–	–	–		–	–	–	–	–	–
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz						3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz					
Cooling capacity		Btu/h	54,600	76,400	95,500	114,000	136,000		154,000	172,000	191,000	210,000	229,000	251,000
		kW	16.0	22.4	28.0	33.5	40.0		45.0	50.4	55.9	61.5	67.0	73.5
Heating capacity		Btu/h	61,400	85,300	107,000	128,000	154,000		171,000	193,000	213,000	235,000	256,000	281,000
		kW	18.0	25.0	31.5	37.5	45.0		50.0	56.5	62.5	69.0	75.0	82.5
Power consumption	Cooling	kW	3.38	5.17	6.84	8.70	10.7		12.9	12.0	13.9	15.5	17.4	19.4
	Heating	kW	3.73	5.67	7.23	8.91	11.0		12.6	12.9	14.6	16.1	17.8	19.9
Capacity control		%	25-100	20-100	13-100	12-100	11-100		10-100	7-100	7-100	6-100	6-100	5-100
Casing colour			Ivory white (5Y7.5/1)						Ivory white (5Y7.5/1)					
Compressor	Type		Hermetically sealed scroll type						Hermetically sealed scroll type					
	Motor output	kW	2.4×1	3.4×1	4.5×1	5.5×1	(2.9×1)+(3.3×1)		(3.6×1)+(3.7×1)	(3.4×1)+(4.5×1)	(3.4×1)+(5.5×1)	(4.5×1)+(5.5×1)	(5.5×1)+(5.5×1)	(5.5×1)+(2.9×1)+(3.3×1)
Airflow rate		m³/min	119	178		191	257		257	178+178	178+191		191+191	191+257
Dimensions (H×W×D)		mm	1,657×930×765				1,657×1,240×765		1,657×1,240×765	(1,657×930×765)+(1,657×930×765)				(1,657×930×765)+(1,657×1,240×765)
Machine weight		kg	185		200		285		285	185+200			200+200	200+285
Sound level		dB(A)	56		57	59	60		60	61			62	63
Operation range	Cooling	°CDB	-5 to 49						-5 to 49					
	Heating	°CWB	-20 to 15.5						-20 to 15.5					
Refrigerant	Type		R-410A						R-410A					
	Charge	kg	6.9	7.0	7.4	7.6	9.1		9.3	7.0+7.4	7.0+7.6	7.4+7.6	7.6+7.6	7.6+9.1
Piping connections	Liquid	mm	ø9.5 (Brazing)			ø12.7 (Brazing)			ø12.7 (Brazing)	ø15.9 (Brazing)				ø19.1 (Brazing)
	Gas	mm	ø19.1 (Brazing)		ø22.2 (Brazing)		ø28.6 (Brazing)		ø28.6 (Brazing)					ø34.9 (Brazing)

Model			RXYQ28AYMN	RXYQ30AYMN	RXYQ32AYMN	RXYQ34AYMN	RXYQ36AYMN		RXYQ38AYMN	RXYQ40AYMN	RXYQ42AYMN	RXYQ44AYMN	RXYQ46AYMN	RXYQ48AYMN
Combination units			RXYQ12AYM	RXYQ12AYM	RXYQ12AYM	RXYQ10AYM	RXYQ12AYM		RXYQ12AYM	RXYQ12AYM	RXYQ10AYM	RXYQ12AYM	RXYQ14AYM	RXYQ16AYM
			RXYQ16AYM	RXYQ18AYM	RXYQ16AYM	RXYQ12AYM	RXYQ12AYM		RXYQ12AYM	RXYQ12AYM	RXYQ16AYM	RXYQ16AYM	RXYQ16AYM	RXYQ16AYM
			–	–	–	RXYQ12AYM	RXYQ12AYM		RXYQ14AYM	RXYQ16AYM	RXYQ16AYM	RXYQ16AYM	RXYQ16AYM	RXYQ16AYM
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz						3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz					
Cooling capacity		Btu/h	268,000	285,000	307,000	324,000	345,000		365,000	382,000	403,000	423,000	444,000	461,000
		kW	78.5	83.5	90.0	95.0	101		107	112	118	124	130	135
Heating capacity		Btu/h	299,000	319,000	341,000	365,000	386,000		409,000	427,000	450,000	471,000	495,000	512,000
		kW	87.5	93.5	100	107	113		120	125	132	138	145	150
Power consumption	Cooling	kW	21.6	24.0	25.8	24.2	26.1		28.1	30.3	32.6	34.5	36.5	38.7
	Heating	kW	21.5	23.8	25.2	25.1	26.7		28.8	30.4	32.4	34.1	36.2	37.8
Capacity control		%	5-100	5-100	5-100	4-100	4-100		4-100	4-100	3-100	3-100	3-100	3-100
Casing colour			Ivory white (5Y7.5/1)						Ivory white (5Y7.5/1)					
Compressor	Type		Hermetically sealed scroll type						Hermetically sealed scroll type					
	Motor output	kW	(5.5×1)+(3.6×1)+(3.7×1)	(5.5×1)+(4.1×1)+(4.0×1)	(3.6×1)+(3.7×1)+(3.6×1)+(3.7×1)	(4.5×1)+(5.5×1)+(5.5×1)	(5.5×1)+(5.5×1)+(5.5×1)		(5.5×1)+(5.5×1)+(2.9×1)+(3.3×1)	(5.5×1)+(5.5×1)+(3.6×1)+(3.7×1)	(4.5×1)+(3.6×1)+(3.7×1)+(3.6×1)+(3.7×1)	(5.5×1)+(3.6×1)+(3.7×1)+(3.6×1)+(3.7×1)	(2.9×1)+(3.3×1)+(3.6×1)+(3.7×1)+(3.6×1)+(3.7×1)	(3.6×1)+(3.7×1)+(3.6×1)+(3.7×1)+(3.6×1)+(3.7×1)
Airflow rate		m³/min	191+257	191+252	257+257	178+191+191	191+191+191		191+191+257	178+257+257	178+257+257	191+257+257	257+257+257	
Dimensions (H×W×D)		mm	(1,657×930×765)+(1,657×1,240×765)	(1,657×1,240×765)+(1,657×1,240×765)	(1,657×1,240×765)+(1,657×930×765)				(1,657×930×765)+(1,657×930×765)+(1,657×1,240×765)		(1,657×930×765)+(1,657×1,240×765)+(1,657×1,240×765)		(1,657×1,240×765)+(1,657×1,240×765)+(1,657×1,240×765)	
Machine weight		kg	200+285	200+305	285+285	200+200+200			200+200+285		200+285+285		285+285+285	
Sound level		dB(A)	63			64			64				65	
Operation range	Cooling	°CDB	-5 to 49						-5 to 49					
	Heating	°CWB	-20 to 15.5						-20 to 15.5					
Refrigerant	Type		R-410A						R-410A					
	Charge	kg	7.6+9.3	7.6+11.8	9.3+9.3	7.4+7.6+7.6	7.6+7.6+7.6		7.6+7.6+9.1	7.6+7.6+9.3	7.4+9.3+9.3	7.6+9.3+9.3	9.1+9.3+9.3	9.3+9.3+9.3
Piping connections	Liquid	mm	ø19.1 (Brazing)						ø19.1 (Brazing)					
	Gas	mm	ø34.9 (Brazing)			ø41.3 (Brazing)			ø41.3 (Brazing)					

Note: Specifications are based on the following conditions;
• Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
• Heating: Indoor temp.: 20°CDB, 15°CWB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.

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

■ Enhanced range of choices

VRV indoor units

| VRT smart | Indoor units subject to VRT smart control |
| VRT | Indoor units subject to VRT control |

Type	Model Name		20	25	32	40	50	63	71	80	100	125	140	200	250
		Capacity Range	0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	2.5 HP	3 HP	3.2 HP	4 HP	5 HP	6 HP	8 HP	10 HP
		Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	200	250
Ceiling Mounted Cassette (Round Flow with Sensing)	FXFSQ-AVM (VRT smart)			●	●	●	●	●	●		●	●	●	●	
Ceiling Mounted Cassette (Round Flow)	FXFQ-AVM (VRT smart)			●	●	●	●	●	●		●	●	●	●	
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-AVM (VRT smart)		●	●	●	●	●								
4-Way Flow Ceiling Suspended	FXUQ-AVEB (VRT)								●		●				
Ceiling Mounted Cassette (Double Flow)	FXCQ-AVM (VRT smart)		●	●	●	●	●	●	●		●	●			
Ceiling Mounted Cassette Corner	FXKQ-MAVE (VRT)			●	●	●		●							
Slim Ceiling Mounted Duct	FXDQ-PDVE (with drain pump) (VRT smart)	(700mm width type)	●	●	●										
	FXDQ-PDVET (without drain pump) (VRT smart)		●	●	●										
	FXDQ-NDVE (with drain pump) (VRT smart)	(900 / 1,100mm width type)				●	●	●							
	FXDQ-NDVET (without drain pump) (VRT smart)					●	●	●							
Middle Static Pressure Ceiling Mounted Duct	FXSQ-PAVE (VRT smart)		●	●	●	●	●	●	●		●	●	●		
Ceiling Mounted Duct	FXMQ-PAVE (VRT smart)		●	●	●	●	●	●	●		●	●	●		
	FXMQ-MVE9 (VRT)													●	●
Outdoor-Air Processing Unit	FXMQ-MFV1											●		●	●
Ceiling Suspended	FXHQ-MAVE (VRT)					●		●			●				
	FXHQ-AVM (VRT)											●	●		
Wall Mounted	FXAQ-AVM (VRT smart)		●	●	●	●	●	●							
Floor Standing	FXLQ-MAVE (VRT)		●	●	●	●	●	●							
Concealed Floor Standing	FXNQ-MAVE (VRT)		●	●	●	●	●	●							
Heat Reclaim Ventilator with DX-Coil and Humidifier	VKM		Airflow rate 500-1000 m³/h												
Heat Reclaim Ventilator	VAM		Airflow rate 150-2000 m³/h												

Residential indoor units with connection to BP units

Type	Model Name		20	25	35	50	60	71
		Rated Capacity (kW)	2.0	2.5	3.5	5.0	6.0	7.1
		Capacity Index	20	25	35	50	60	71
Slim Ceiling Mounted Duct	CDXS-EAVMA (VRT)	(700 mm width type)				●	●	
	FDXS-CVMA (VRT)	(900/1,100 mm width type)				●	●	●
Wall Mounted	FTXS-DVMA / FTXS-EVMA (VRT)			●	●	●		
	FTXS-FVMA (VRT)					●	●	●

Note: BP units are necessary for residential indoor units. Only single outdoor unit (RXYQ6-16AYM) can be connected.

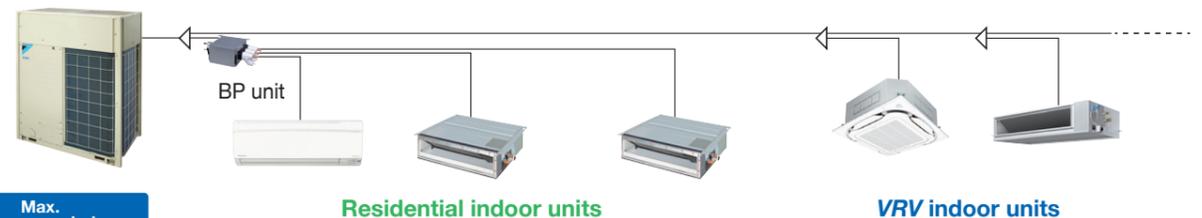### VRV indoor units combine with residential indoor units, all in one system.

VRV indoor unit only system

VRV indoor units only

Max. **64** indoor units

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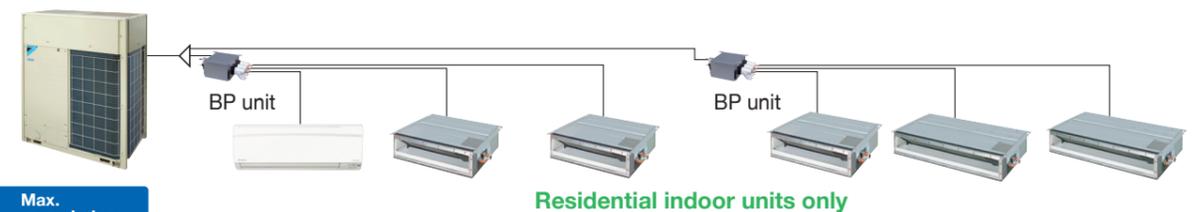
Residential indoor unit and VRV indoor unit mix system

BP unit

Residential indoor units

VRV indoor units

Max. **26** indoor units

- BP units are necessary for residential indoor units. Only single outdoor unit (RXYQ6-16AYM) can be connected.
- If a system has both residential indoor units and VRV indoor units, the system is operated under VRT control.

Residential indoor unit only system

BP unit

BP unit

Residential indoor units only

Max. **26** indoor units

- BP units are necessary for residential indoor units. Only single outdoor unit (RXYQ6-16AYM) can be connected.
- If a system has only residential indoor units, the system is operated under VRT control.

Indoor Unit Lineup

Indoor Unit Lineup

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

VRV indoor units

Ceiling Mounted Cassette (Round Flow with Sensing) Type
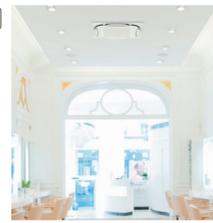**P.27**

FXFSQ-AVM

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

Ceiling Mounted Cassette (Round Flow) Type
P.27

FXFQ-AVM

360° airflow improves temperature distribution and offers a comfortable living environment.

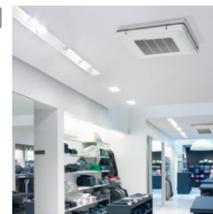### Ceiling Mounted Cassette (Compact Multi Flow) Type
P.37

FXZQ-AVM

Quiet, compact, and designed for user comfort.

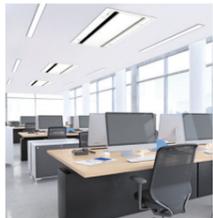### 4-Way Flow Ceiling Suspended Type
P.38

FXUQ-AVEB

Slim and stylish design, optimum air distribution, installation without ceiling cavity.

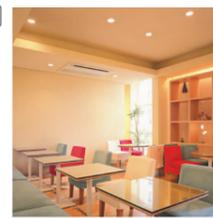### Ceiling Mounted Cassette (Double Flow) Type
P.39

FXCQ-AVM

Sophisticated panel design blends easily with any interior.

Ceiling Mounted Cassette Corner Type
P.41

FXKQ-MAVE

Slim design for flexible installation

Slim Ceiling Mounted Duct Type
P.43

FXDQ-PDVE(T)

FXDQ-NDVE(T)

Slim design, quietness and static pressure switching.

Middle Static Pressure Ceiling Mounted Duct Type
P.45

FXSQ-PAVE

Middle static pressure and slim design allow flexible installations.

Ceiling Mounted Duct Type
P.47

FXMQ-PAVE

FXMQ-MVE9

Middle and high static pressure allows for flexible duct design.

Outdoor-Air Processing Unit
P.59

FXMQ-MFV1

Combine fresh air treatment and air conditioning, supplied from a single system.

Ceiling Suspended Type
P.49

FXHQ-MAVE

FXHQ-AVM

Slim body with quiet and wide airflow.

Wall Mounted Type
P.51

FXAQ-AVM

Stylish flat panel design harmonised with your interior décor.

Floor Standing Type
P.53

FXLQ-MAVE

Suitable for perimeter zone air conditioning.

Concealed Floor Standing Type
P.54

FXNQ-MAVE

Designed to be concealed against the wall.
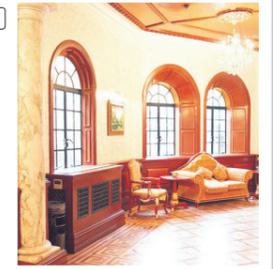
Residential indoor units with connection to BP units

Slim Ceiling Mounted Duct Type
P.55

CDXS-EAVMA

FDXS-CVMA

Slim and smooth design suits your shallow ceiling

Wall Mounted Type
P.56

FTXS-DVMA

FTXS-EVMA

FTXS-FVMA

Stylish flat panel harmonises with your interior décor

Indoor Unit Lineup

New Round Flow Cassette movie at Daikin official YouTube site.

VRV Indoor Units

Ceiling Mounted Cassette (Round Flow with Sensing) Type

FXFSQ-A

Round flow with sensing

FXFQ-A

ROUND FLOW

Ceiling Mounted Cassette (Round Flow) Type

Wide variety of decoration panels (Option)

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

- Fresh White -

FXFSQ series only
Standard panel with sensing

- Black -

- Fresh White -

Designer panel

- Fresh White -

- Black -

Standard panel

Designer panel (Option)

Close to ideal styling
——— New designer panel ———

FLAT
Flatter styling: Suction panel grid texture smoothed.

CLEAN
Clean-cut form: Soiling is hard to see on smart-looking panel.

ROUND
Subtle distinction: around suction inlets silvering is a tasteful touch.

Decoration Panel Lineup (Option)

FXFSQ series only
Standard panel with sensing[*1]
BYCQ125EEF (Fresh White)

FXFSQ series only
Standard panel with sensing[*1]
BYCQ125EEK (Black)

Standard panel[*2]
BYCQ125EAF (Fresh White)

Standard panel[*2]
BYCQ125EAK (Black)

Designer panel[*2]
BYCQ125EAPF (Fresh White)

Auto grille panel[*2]
BYCQ125EBSF (Fresh White)

*1.Sensing function is applicable when sensing panel is installed.
*2.These panels do not contain the sensing function.

Specifications

Ceiling Mounted Cassette (Round Flow with Sensing) Type

MODEL			FXFSQ25AVM	FXFSQ32AVM	FXFSQ40AVM	FXFSQ50AVM	FXFSQ63AVM	FXFSQ80AVM	FXFSQ100AVM	FXFSQ125AVM	FXFSQ140AVM
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz								
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	
		kW	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0	
Power consumption	Cooling	kW	0.028		0.035	0.056	0.061	0.092	0.164	0.170	0.194
	Heating		0.026		0.034	0.056	0.060	0.092	0.144	0.159	0.183
Casing			Galvanised steel plate								
Airflow rate (H/HM/M/ML/L)		m³/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	830/741/706/565/477	865/777/724/706/530	1,183/1,077/953/830/741	1,218/1,112/1,006/900/812	1,253/1,147/1,041/935/812
Sound level (H/HM/M/ML/L)		dB(A)	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			24		22		25	26
Piping connections	Liquid (Flare)	mm	φ 6.4					φ 9.5			
	Gas (Flare)		φ12.7					φ15.9			
	Drain		VP25 (External Dia. 32/Internal Dia. 25)								

Ceiling Mounted Cassette (Round Flow) Type

MODEL			FXFQ25AVM	FXFQ32AVM	FXFQ40AVM	FXFQ50AVM	FXFQ63AVM	FXFQ80AVM	FXFQ100AVM	FXFQ125AVM	FXFQ140AVM
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz								
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	47,800	54,600
		kW	3.2	4.0	5.0	6.3	8.0	10.0	12.5	14.0	16.0
Power consumption	Cooling	kW	0.029		0.036	0.040	0.063	0.096	0.158	0.178	0.203
	Heating		0.027		0.036	0.040	0.063	0.096	0.150	0.166	0.191
Casing			Galvanised steel plate								
Airflow rate (H/HM/M/ML/L)		m³/min	13/12.5/11.5/11/10		17/13.5/13/12/11	18/17/13.5/12.5/11	21/20/16/15/13.5	22.5/21.5/21/20/15	32/29/26/23/21	33/30.5/28/25.5/21	35.5/32.5/29.5/26.5/23
		cfm	459/441/406/388/353		600/477/459/424/388	635/600/477/441/388	741/706/565/530/477	794/759/741/706/530	1,130/1,024/918/812/741	1,165/1,077/988/900/741	1,253/1,147/1,041/935/812
Sound level (H/HM/M/ML/L)		dB(A)	30/29.5/28.5/28/27		35/29.5/29/28/27	35/33.5/29.5/28.5/27	36/35.5/31.5/31/28	37/36.5/36/35.5/29.5	43/40.5/37.5/35/33	44/41.5/39/36.5/33	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	φ 6.4					φ 9.5			
	Gas (Flare)		φ12.7					φ15.9			
	Drain		VP25 (External Dia. 32/Internal Dia. 25)								

Note: Specifications are based on the following conditions;
• Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, 24°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
• Heating: Indoor temp.: 20°CDB, 15°CWB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
• Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
• Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
    During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Decoration Panel (Option)

			Round Flow with Sensing Type FXFSQ-A	Round Flow Type FXFQ-A
Standard panel with sensing	Model		BYCQ125EEF (Fresh White) / BYCQ125EEK (Black)	—
	Dimensions(H×W×D)	mm	50×950×950	—
	Weight	kg	5.5	—
Standard panel	Model		BYCQ125EAF (Fresh White) / BYCQ125EAK (Black)	
	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		BYCQ125EBSF (Fresh White)	
	Dimensions(H×W×D)	mm	105×950×950	
	Weight	kg	8	

Function List

		Round Flow with Sensing Type FXFSQ-A		Round Flow Type FXFQ-A	
Remote controller	Wired	BRC1E63	—	BRC1E63	—
	Wireless	—	BRC7M635F(K) BRC7M634F(K)	—	BRC7M635F(K) BRC7M634F(K)
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		○		○	

*1. Applicable when sensing panel is installed.

Indoor Unit Lineup

New Round Flow Cassette movie at Daikin official YouTube site.

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

Daikin Advanced Sensing Technology

Dual sensors

Round flow with sensing

Detecting the presence of people in 4 areas

C B D A

Detecting the average temperature of indoor floor

Infrared presence sensor

The 4 sensors detect human presence.

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

*2. 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)*3	approx. 11m	approx. 14m	approx. 16m

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

Various sensing functions

Operation is reduced in places where there are no people.

Sensing sensor mode*4*5

Sensing sensor low mode (default: OFF)

When there are no people in a room, the set temperature is shifted automatically.
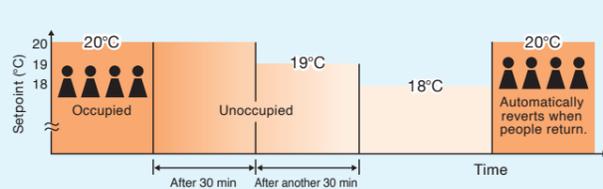
The system automatically saves energy by detecting whether or not the room is occupied. The set temperature is shifted automatically if the room is unoccupied.

Example
• Cooling setpoint: 26℃   • Shift temperature: 1.0℃
• Shift time:30 min.   • Limit cooling temperature:30℃
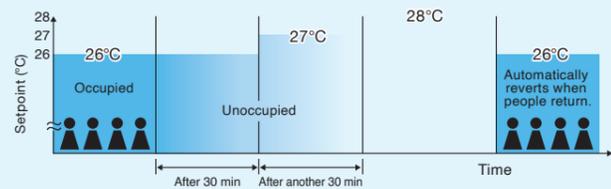
If people do not return, the air conditioner will raise the temperature 1°C every 30 minutes and then operate at 30°C.

Example
• Heating setpoint: 20℃   • Shift temperature: 1.0℃
• Shift time: 30 min.   • Limit heating temperature: 16℃

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

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

Sensing sensor stop mode (default: OFF)

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

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

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

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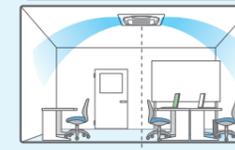*6.Please note that upon re-entering the room, air conditioner will not switch on automatically.

Auto airflow function*7

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

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

When human presence not detected. | When human presence detected.

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

Draft prevention function (default: OFF) (Heating)

When human presence not detected. | When human presence detected.

Blown downward | Blown downward   Blown horizontally

● 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.
● With Auto airflow direction mode, flaps are controlled to deliver optimal airflow when the room is unoccupied.
● When human is detected, drafts are prevented by making the flap horizontal.

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

Comfort and energy saving preventing over cooling/heating*8

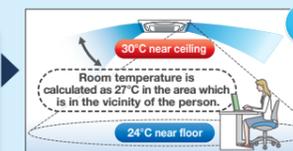*8.Airflow direction and airflow rate should be set to "Auto".

Floor temperature is detected and over cooling prevented. (Cooling)

Without sensing function | With sensing function

30℃ near ceiling | Room temperature is detected as 30℃. | 20℃ near floor
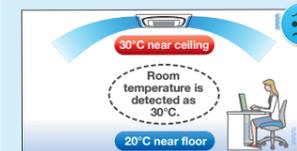
Area around feet gets too cold because air conditioner continues until the temperature near the ceiling reaches the set temperature.

30℃ near ceiling | Room temperature is calculated as 27℃ in the area which is in the vicinity of the person. | 24℃ near floor

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.

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

Without sensing function | With sensing function

When air is blown horizontally...

Drafts are minimal, but feet get cold.
17℃ near floor

Feet get cold, because warm air collects near the ceiling.
Area near floor doesn't reach set temperature and feet feel cold.

For this reason, we end up raising the temperature setting.

When air is blown downward...

Feet are warm, but draft is strong.
20℃ near floor

Uncomfortable draft occurs, because air is blown downward.

To avoid draft, air direction is changed to horizontal and feet get cold.

With sensing function

20℃ near floor

In order to reduce drafts, air is blown horizontally where a person is located.*9

The floor temperature, which is lower, is detected and warm air is blown downward where no person is present.

Comfortable because draft is reduced and area around feet is warm.

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

To increase comfort, Auto airflow rate mode controls the airflow in accordance with the difference between floor and ceiling temperatures.

When there is a large difference between the ceiling and floor temperatures, the airflow rate is automatically increased. When the difference becomes small, the airflow rate is automatically reduced.

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

Indoor Unit Lineup

New Round Flow Cassette movie at Daikin official YouTube site.

Circulation Airflow*1.2

*1. Applicable when wired remote controller BRC1E63 is used.
*2. Not applicable when using individual airflow direction control.

Cooling

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

During 2-way horizontal flow

Airflow effectively avoids blowing air directly on people.

Cool air moves down along the walls and to every corner of the room.

Cools by airflow blocking out hot air near windows and walls.

Comfort without cold air pockets at floor level.

Hot outdoor air

Heating

Circulation airflow warms the entire room starting from your feet.

During 2-way horizontal flow

Airflow effectively avoids blowing air directly on people.

Airflow quickly makes the entire room warm and comfortable.

Warms by airflow blocking out cool air near windows and walls.

Warmth reliably reaches feet.

Cool outdoor air

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

Cooling

4-way cassette (Swing)

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.

Circulation Airflow (2-way horizontal + 4-way swing)

Approx. 5% energy *3 savings by reducing uneven temperatures

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

Full comfort is provided with no cold feet.

Entire room evenly comfortable: warmth reaches feet

Heating

4-way cassette (Down blow)

30.0 28.0 26.0 24.0 22.0 20.0 18.0 16.0 14.0 12.0 10.0

Comparison Conditions
■ Room size: Width 7.5m x depth 7.5m x height 2.6m
■ Indoor unit capacity:71 class
■ Outdoor air temperature:5°C
■ Airflow rate and air direction: high / Down blow

Areas around walls and feet are cold.
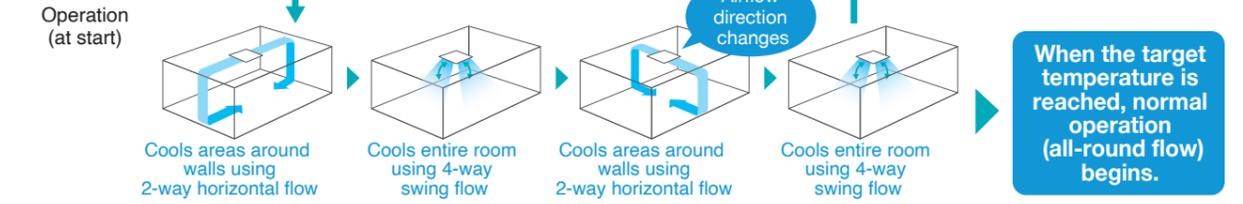
Circulation Airflow (2-way horizontal + 4-way swing)

Approx. 15% energy *4 savings by reducing uneven temperatures

*4.Calculated under the following comparison conditions: When the average temperature at a height of 0.6m above the floor reaches set temperature. (22°C)
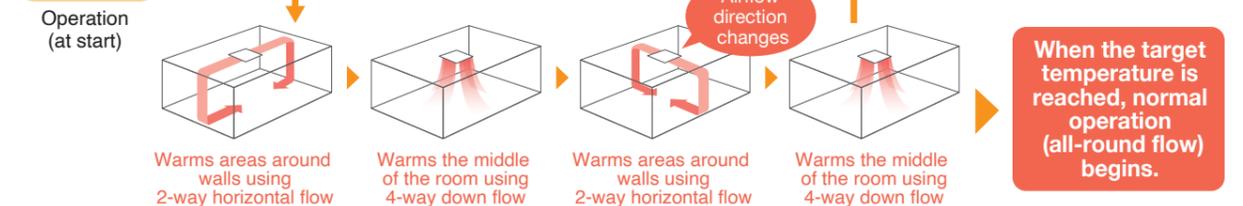
Areas around walls and feet are warm.

Configurations of Circulation Airflow

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

Cooling

Operation (at start)

Performs repeatedly

Airflow direction changes

Cools areas around walls using 2-way horizontal flow

Cools entire room using 4-way swing flow

Cools areas around walls using 2-way horizontal flow

Cools entire room using 4-way swing flow

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

Heating

Operation (at start)

Performs repeatedly

Airflow direction changes

Warms areas around walls using 2-way horizontal flow

Warms the middle of the room using 4-way down flow

Warms areas around walls using 2-way horizontal flow

Warms the middle of the room using 4-way down flow

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

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.
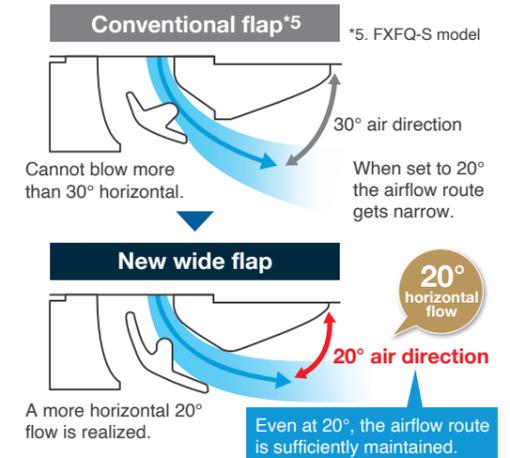
Conventional flap*5

New wide flap

Approx. doubled

*5. FXFQ-S model
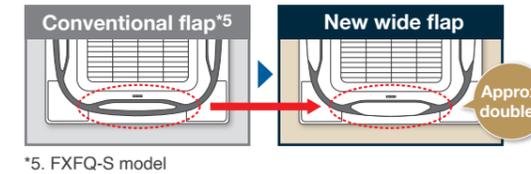
New wide flap construction inhibits ceiling dirt and grime.

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

### 2 Optimizing airflow angle (Horizontally)

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

Conventional flap*5

*5. FXFQ-S model

Cannot blow more than 30° horizontal.

30° air direction

When set to 20° the airflow route gets narrow.

New wide flap

A more horizontal 20° flow is realized.

20° air direction

20° horizontal flow

Even at 20°, the airflow route is sufficiently maintained.

3 Increased velocity in 2-way flow (Strongly)

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

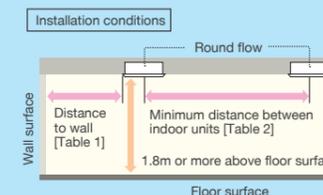*6.Other 2 outlets are controlled by changing the flap direction (angle) to suppress airflow volume.

All-round flow

Two-way flow

*6

*6

Velocity 10% increase!
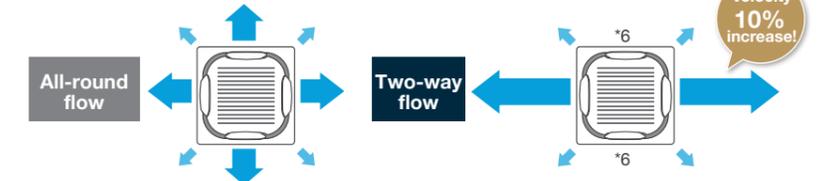
Things to remember when using circulation airflow

Main points for use

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

• Circulation airflow functions during connection with wired remote controller (BRC1E63). However, use is not possible for the following conditions:
 - When a sealing material of air discharge outlet and branch ducts are used;
 - When individual airflow setting is selected;
 - When using group control other than round flow.

Installation conditions

Round flow

Wall surface

Distance to wall [Table 1]

Minimum distance between indoor units [Table 2]

1.8m or more above floor surface

Floor surface

[Table 1] Distance to wall from indoor unit

Indoor unit capacity	FXFSQ 25-50	FXFSQ 63/80	FXFSQ 100-140
Distance range	1.5m-4m	1.5m-5m	1.5m-7m

[Table 2] Minimum distance between indoor units

Indoor unit capacity	FXFSQ 25-50	FXFSQ 63/80	FXFSQ 100-140
Minimum distance	4m or more	5m or more	7m or more

Indoor Unit Lineup

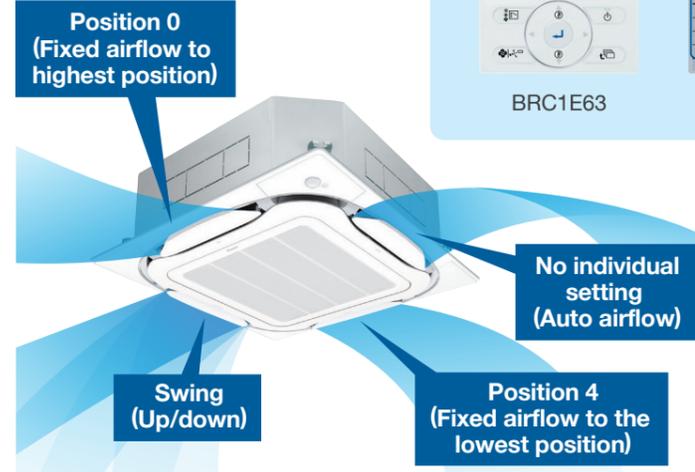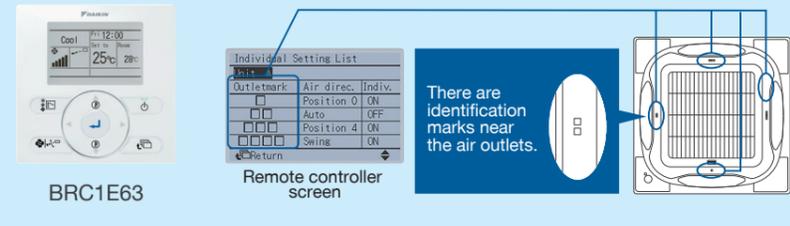New Round Flow Cassette movie at Daikin official YouTube site.

Individual Airflow Direction Control*1

*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.

Position 0
(Fixed airflow to highest position)

No individual setting
(Auto airflow)

Swing
(Up/down)

Position 4
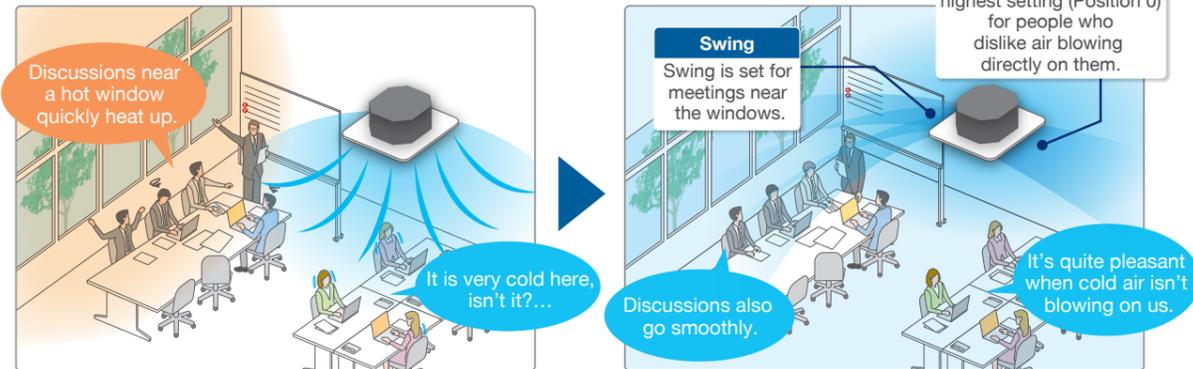(Fixed airflow to the lowest position)

Individual airflow settings

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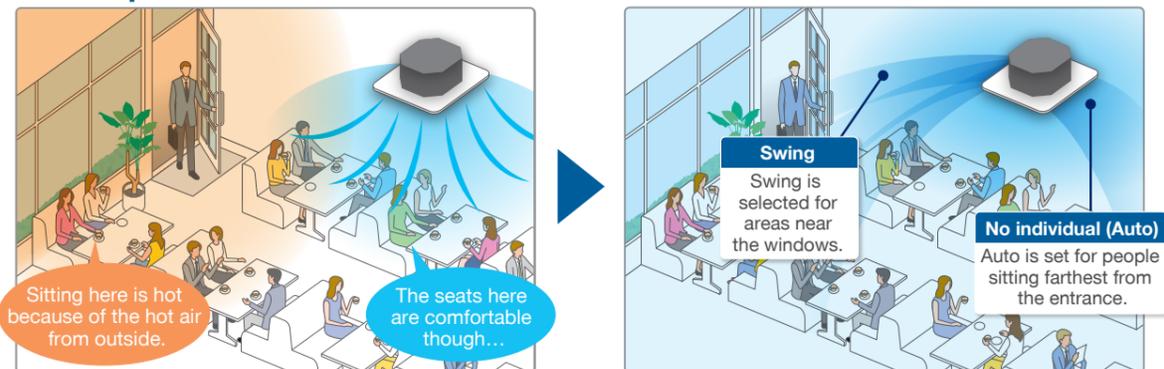- Position 4 (Lowest point)
- Swing

Individual settings are possible as stated above.

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

For offices

Discussions near a hot window quickly heat up.

It is very cold here, isn't it?…

Swing
Swing is set for meetings near the windows.

Discussions also go smoothly.

It's quite pleasant when cold air isn't blowing on us.

Position 0
The airflow is at the highest setting (Position 0) for people who dislike air blowing directly on them.

For shops and restaurant

Sitting here is hot because of the hot air from outside.

The seats here are comfortable though…

Swing
Swing is selected for areas near the windows.

No individual (Auto)
Auto is set for people sitting farthest from the entrance.

Ceiling Mounted Cassette **(Round Flow with Sensing) Type** FXFSQ-A

Ceiling Mounted Cassette **(Round Flow) Type** FXFQ-A

Other Functions

Comfort

360° Airflow & Selectable Airflow Pattern

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

Typical flow patterns There are a total of 18 flow patterns.

All-round flow	3-way flow	L-shaped 2-way flow	Opposite 2-way flow
(E.g., installed in middle of ceiling) 4-way flow also possible.	(E.g., installed near a wall)	(E.g., installed in a corner)	(E.g., installed in a long room)

Required distance to wall surface for closing air discharge outlet

Minimum distance of 500mm
* 200mm for corner closing
Wall surface

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.
- Operation sound increases when using 2-way or 3-way flow.
- Designer panel cannot operate 2-way and 3-way flow.

Optimal comfort and convenience assured by 3 air discharge modes

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

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

Switchable fan speed: 5 steps and Auto

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

Suitable for high ceilings

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

Standard 3.2 m

Setting ① 3.6 m

Setting ② 4.2 m
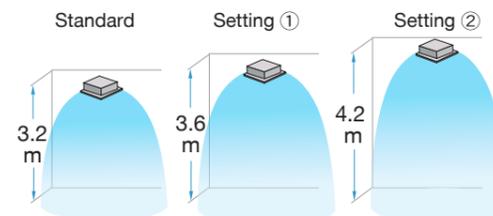
When all round flow is selected, ceilings up to 4.2 m in height can be accommodated. (FXF(S)Q100-140A)

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

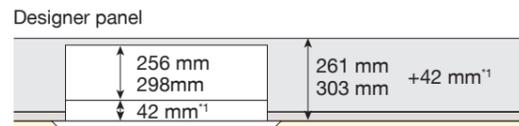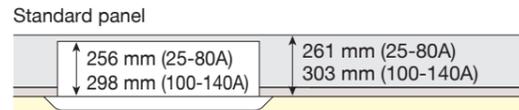|		Number of air discharge outlets used							
		FXF(S)Q25-80A				FXF(S)Q100-140A			
		All round flow	4-way flow	3-way flow	2-way flow	All round flow	4-way flow	3-way flow	2-way flow
Ceiling height	Standard	2.7 m	3.1 m	3.0 m	3.5 m	3.2 m	3.4 m	3.6 m	4.2 m
	High ceiling ①	3.0 m	3.4 m	3.3 m	3.8 m	3.6 m	3.9 m	4.0 m	4.2 m
	High ceiling ②	3.5 m	4.0 m	3.5 m	—	4.2 m	4.5 m	4.2 m	—

Note:
· The aforementioned is for standard panels. See the installation manual for designer panels.
· Factory settings are for standard ceiling height and all-round flow. High ceiling settings (1) and (2) are set with the remote controller by field setting.
· High-efficiency filters are not available for high ceiling applications.

Indoor Unit Lineup

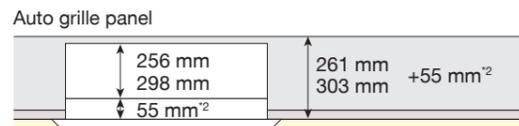## Quick and Easy Installation

Lightweight

All models can be installed without using a lifter.

Installable in tight ceiling spaces

Standard panel

256 mm (25-80A)	261 mm (25-80A)
298 mm (100-140A)	303 mm (100-140A)

Designer panel

256 mm	261 mm
298mm	303 mm +42 mm[*1]
42 mm[*1]	

*1.Body height (ceiling required space) is 42 mm higher than standard panel.

Auto grille panel

|	
256 mm	261 mm
298 mm	303 mm +55 mm[*2]
55 mm[*2]	

*2.Body height (ceiling required space) is 55 mm higher than standard panel.
*When the ceiling space is limited, an optional panel spacer is available.
(See page 91)

Easy height adjustment

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

Note:
If the wireless remote controller is installed, a signal receiver unit is housed in one of the adjuster pockets.
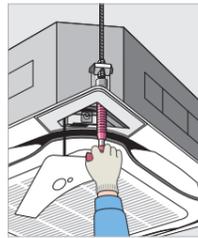
Temporary placement of control box lid

Because the control box lid can be temporarily hung on the unit, there is no need to climb down the stepladder to retrieve it.
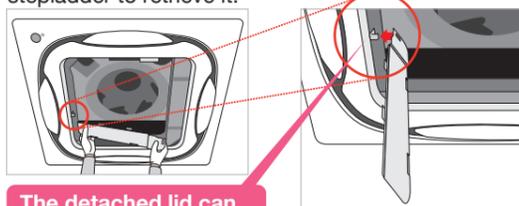
The detached lid can be hung on a hook.

Installed in any direction

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

Washer fixing plate
Washer
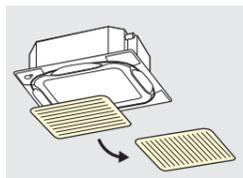
Easy hanging

Washer fixing plates secure washers in place and prevent washers from falling for easy installation.
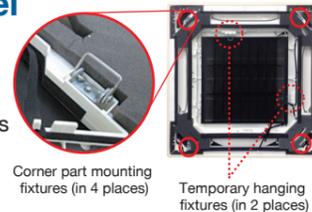
Easy removal of corner cover

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

Ease in temporary hanging of decoration panel

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

Corner part mounting fixtures (in 4 places)

Temporary hanging fixtures (in 2 places)

Drain pump

Equipped as standard accessory with 850 mm lift.

850 mm

175 mm
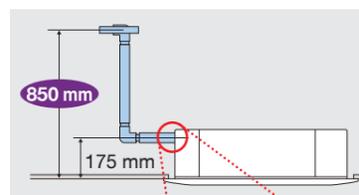
Transparent drain socket

■ **Hanging height adjustment**

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

Hanger bracket

A

Ceiling surface

	A Dimensions
Standard panel	125-130mm
Designer panel	167-172mm
Auto grille panel	180-185mm
Chamber option*+ standard panel	175-180mm

*High-efficiency filter, ultra long-life filter, and fresh air intake

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| Ceiling Mounted Cassette (Round Flow with Sensing) Type	**FXFSQ-A**	Ceiling Mounted Cassette (Round Flow) Type	**FXFQ-A**

Easy Maintenance

### Drain pan and drain water check

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

Note: For inquiries concerning auto grille panel installations, please contact your local dealer or Daikin representative.

Drain outlet (with rubber plug)

Just open the suction grille!
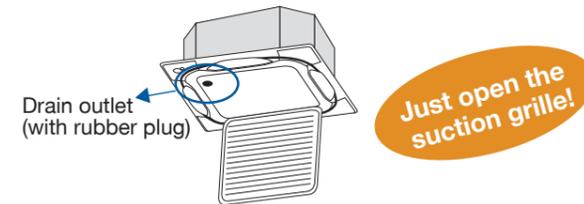
24 mm diameter drain outlet

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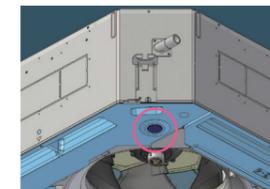
Auto grille panel (option)

Grille and air filter cleaning can be performed without need for a stepladder by lowering the grille.

A dedicated remote controller for the auto grille panel (BRC16A2) is included.
Operation is not possible using BRC1E63.

The drop length corresponds to ceiling height and can be set for 8 different levels.

Ceiling Height Standard (m)	Drop Length
2.4	1.2
2.7	1.6
3.0	2.0
3.5	2.4
3.8	2.8
4.2	3.1
4.5	3.5
5.0*	3.9

*Airflow range is up to 4.5m.
Please refer to "criteria for ceiling height and number of air discharge outlets" on page 34.

Ultra long-life filter (option)

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

Cleanliness

Silver ion anti-bacterial drain pan

A built-in antibacterial treatment that uses silver ion in the drain pan prevents the growth of slime, bacteria, and mould that cause odours and clogging.
(The lifespan of a silver ion cartridge depends on the usage environment, but should be changed once every two to three years.)

Non-flocking flaps

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

### Filter has anti-mould and antibacterial treatment

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

Indoor Unit Lineup

Ceiling Mounted Cassette (Compact Multi Flow) Type FXZQ-A

Quiet, compact, and designed for user comfort

Compact & elegant design

• Fully-flat integration in standard architectural ceiling tiles, leaving only 8 mm

• 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.

8 mm
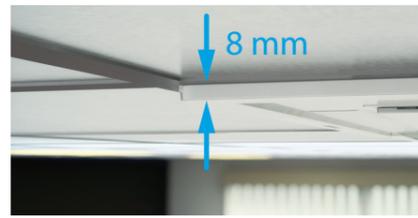
Efficiency & comfort

Dual sensors (Option)

• 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 *1

• Airflow direction can be individually adjusted for each air discharge outlet to deliver optimal air distribution.
*1. This function can only be set via wired remote controller BRC1E63.

Auto swing (up/down)

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

Cleanliness

Ceiling soiling prevention

Prevents air from blowing against the ceiling to prevent ceiling stains.

4-way Flow Ceiling Suspended Type FXUQ-A

### Slim and stylish design, optimum air distribution, installation without ceiling cavity.

● Unit body and suction panel adopted round shapes and realised a slim appearance design. The unit can be used for various locations such as the ceilings with no cavity and bare ceilings.

● Flaps close automatically when the unit stops, which gives a simple appearance.

● Unified slim height of 198 mm for all model that gives the unified impression even when models with different capacities are installed in the same area.

● With adoption of the individual flap control, airflow direction adjustment can be individually set for each air outlet. 5 directions of airflow and auto-swing can be selected with wired remote controller BRC1E63, which realises the optimum air distribution.

Individual airflow direction example case

Position 0 Position 2
Position 3 Swing
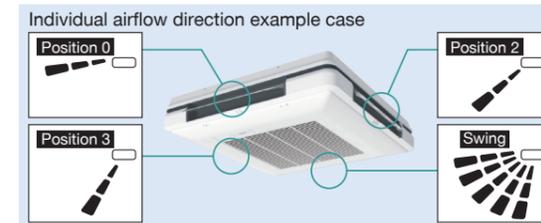
● Control of the airflow rate has been improved from 2-step to 3-step control. Auto airflow rate control can be selected with wired remote controller BRC1E63.

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

Current model   New model
BEV unit is needed   BEV unit is not needed
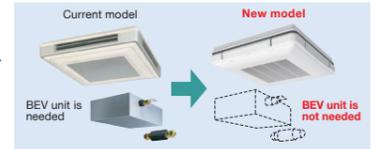
● Energy efficiency has been improved thanks to the adoption of a new heat exchanger with smaller tubes, DC fan motor and DC drain pump motor.

● Drain pump is equipped as a standard accessory, and the lift height has been improved from 500 mm to 600 mm.

● Depending on installation site requirements or room conditions, 2-way, 3-way and 4-way discharge patterns are available.

4-way flow   3-way flow   L-shaped 2-way flow

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

Specifications

MODEL			FXUQ71AVEB	FXUQ100AVEB
Power supply			1-phase, 220-240 V/220-230 V, 50/60 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
Power consumption	Cooling	kW	0.090	0.200
	Heating	kW	0.073	0.179
Casing			Fresh white	
Airflow rate (H/M/L)		m³/min	22.5/19.5/16	31/26/21
		cfm	794/688/565	1,094/918/741
Sound level (H/M/L)		dB(A)	40/38/36	47/44/40
Dimensions (H×W×D)		mm	198×950×950	
Machine weight		kg	26	27
Piping connections	Liquid (Flare)	mm	ϕ9.5	
	Gas (Flare)		ϕ15.9	
	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. (See Engineering Data Book for details.)
• Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.
During actual operation, these values are normally somewhat higher as a result of ambient conditions

Indoor Unit Lineup

Ceiling Mounted Cassette (Double Flow) Type

FXCQ-A

Sophisticated panel design blends easily with any interior.

New panel design

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

Individual Airflow Direction Control [*1]

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

Position 0
(Fixed airflow to highest position)

Swing
(Up / Down)

Easy setting is possible with a wired remote controller.

Individual Setting List
Unit A
Outletmark	Air direc.	Indiv.
Swing	ON
Position 0	ON

There are identification marks near the air outlets.

Return

Individual airflow settings

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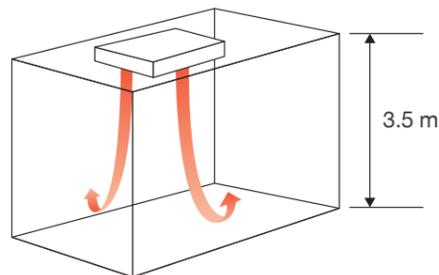- Position 3
- Position 4 (Lowest point)
- Swing

Individual settings are possible as stated above.

Switchable fan speed: 5 steps and Auto

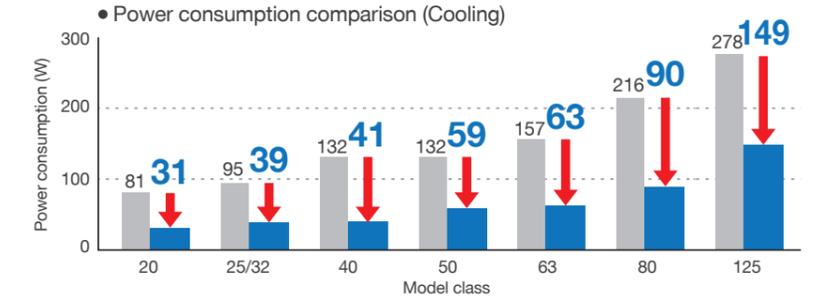- Control of airflow rate has been improved from 3-step to 5-step. Auto airflow rate is newly available.

Suitable for high ceilings

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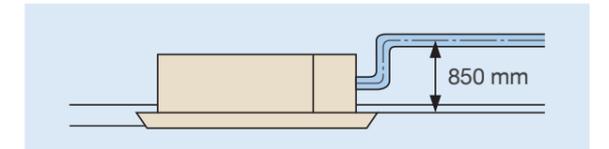
3.5 m

Energy saving : Reduction of energy consumption

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

● Power consumption comparison (Cooling)

Power consumption (W)

300
200
100
0

81 **31** | 95 **39** | 132 **41** | 132 **59** | 157 **63** | 216 **90** | 278 **149**

20 | 25/32 | 40 | 50 | 63 | 80 | 125
Model class

■ Conventional model:FXCQ-M
■ New model:FXCQ-A

Enhanced functions from various aspects such as maintenance

- The flap parts are easy to clean because it is hard to condensate and get dirty.
- Check contamination in drain pan by simply remove suction grille and panel.
- 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.
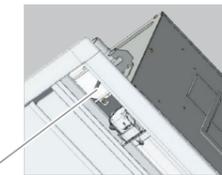
Adjuster Pocket

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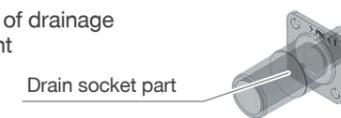
Drain socket part

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

850 mm

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

Specifications

MODEL		FXCQ20AVM	FXCQ25AVM	FXCQ32AVM	FXCQ40AVM	FXCQ50AVM	FXCQ63AVM	FXCQ80AVM	FXCQ125AVM
Power supply		1-phase, 220-240 V/220-230 V, 50/60 Hz							
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	30,700	47,800
	kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	14.0
Heating capacity	Btu/h	8,500	10,900	13,600	17,100	21,500	27,300	34,100	54,600
	kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	16.0
Power consumption	Cooling	kW	0.031	0.039		0.041	0.059	0.063	0.090	0.149
	Heating		0.028	0.035		0.037	0.056	0.060	0.086	0.146
Casing		Galvanised steel plate							
Airflow rate (H/HM/M/ML/L)	m³/min	10.5/9.5/9/8/7.5	11.5/10.5/9.5/8.5/8		12/11/10.5/9.5/8.5	15/14/13/11.5/10.5	16/15/14/12.5/11.5	26/24/22.5/20.5/18.5	32/29.5/27.5/25/22.5
	cfm	371/335/318/282/265	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	1,130/1,041/971/883/794
Sound level (H/HM/M/ML/L)	dB(A)	32/31/30/29/28	34/33/31/30/29	34/33/32/31/30		36/35/33/32/31	37/36/35/33/31	39/38/37/35/32	42/40/38/36/33	46/44/42/40/38
Dimensions (H×W×D)	mm	305x775x620					305x990x620		305x1,445x620
Machine weight	kg	19					22	25	33	38
Piping connections	Liquid (Flare)	mm	φ 6.4						φ 9.5	
	Gas (Flare)		φ12.7						φ15.9	
	Drain		VP25 (External Dia. 32/Internal Dia. 25)							
Panel (Option)	Model		BYBCQ40CF					BYBCQ63CF		BYBCQ125CF
	Colour		Fresh white (6.5Y 9.5/0.5)							
	Dimensions (H×W×D)	mm	55x1,070x700					55x1,285x700		55x1,740x700
	Weight	kg	10					11		13

Note: Specifications are based on the following conditions;
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, 15°CWB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Indoor Unit Lineup

Ceiling Mounted Cassette Corner Type

FXKQ-MA

Slim design for flexible installation

- Slim body needs only 220 mm space above the ceiling. If you use a panel spacer (option), the unit can be installed in the minimum space of 195 mm.

Min.195 mm
Panel spacer
20 mm
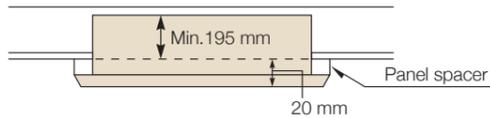
- Single-flow type allows effective air discharge from corner or from drop-ceiling.

- Drain pump is equipped as standard accessory with 500 mm lift.

500 mm
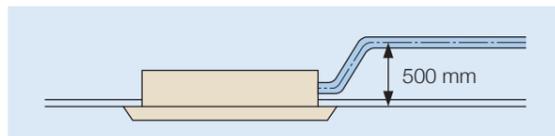
- Providing 3 different settings of standard, draft prevention and ceiling soiling prevention, the auto swing mechanism realises even distribution of airflow and room temperature.

(m)
3
28℃ 26℃
24℃
32℃ 30℃
2
22℃
1
20℃
0   1   2   3   4   5   6 (m)
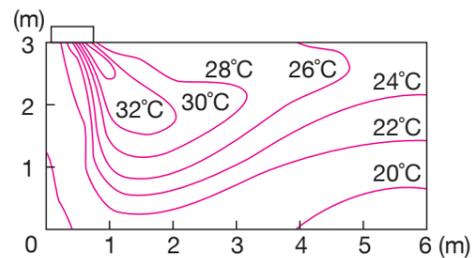
- Front discharge is possible with an air discharge unit (option), which allows the installation in the drop-ceiling or sagging wall.

Main body
Downward discharge
Air discharge grille (Option)
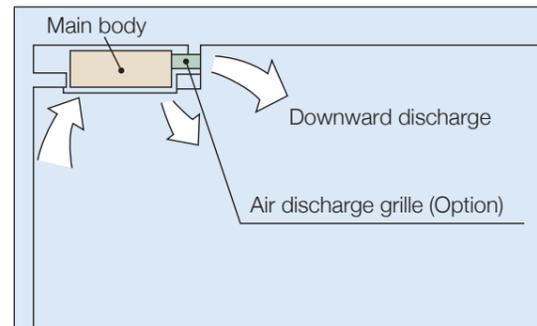
＊Set for front discharge using a suspended ceiling.

Main body
Air discharge grille (Option)
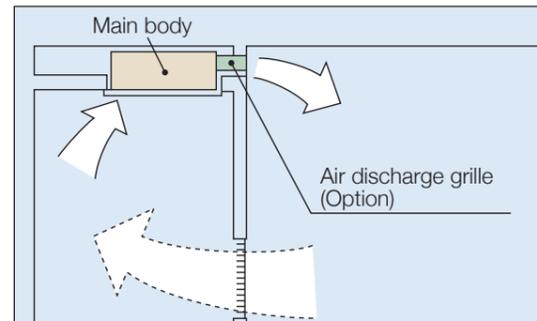
＊Downward discharge is shut off and air is blown straight out (front discharge).

- A long-life filter (maintenance free up to one year*) is equipped as standard accessory.

* 8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m³

Specifications

MODEL			FXKQ25MAVE	FXKQ32MAVE	FXKQ40MAVE	FXKQ63MAVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz			
Cooling capacity	Btu/h		9,600	12,300	15,400	24,200
	kW		2.8	3.6	4.5	7.1
Heating capacity	Btu/h		10,900	13,600	17,100	27,300
	kW		3.2	4.0	5.0	8.0
Power consumption	Cooling	kW	0.066		0.076	0.105
	Heating	kW	0.046		0.056	0.085
Casing			Galvanised steel plate			
Airflow rate (H/L)	m³/min		11/9		13/10	18/15
	cfm		388/318		459/353	635/530
Sound level (H/L)	220 V	dB(A)	38/33		40/34	42/37
	240 V		40/35		42/36	44/39
Dimensions (H×W×D)	mm		215×1,110×710			215×1,310×710
Machine weight	kg		31			34
Piping connections	Liquid (Flare)	mm	∅ 6.4			∅ 9.5
	Gas (Flare)		∅ 12.7			∅ 15.9
	Drain		VP25 (External Dia. 32/Internal Dia. 25)			
Panel (Option)	Model		BYK45FJW1			BYK71FJW1
	Colour		White (10Y9/0.5)			
	Dimensions(H×W×D)	mm	70×1,240×800			70×1,440×800
	Weight	kg	8.5			9.5

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 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

Indoor Unit Lineup

Slim Ceiling Mounted Duct Type
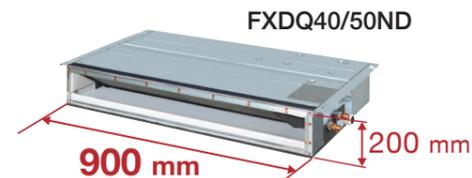
FXDQ-PD / ND

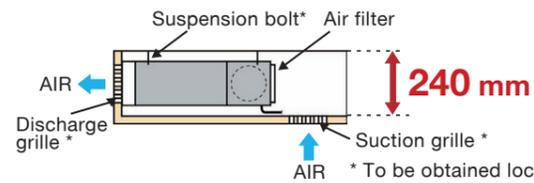### Slim design, quietness and static pressure switching

Suitable to use in drop-ceilings!

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

Great for hotel use!

FXDQ20-32PD

Only 700 mm

200 mm

- Control of the airflow rate can be selected from 3-step control and Auto. Auto airflow rate control can be selected with wired remote controller BRC1E63 and BRC2E61.

- Low operation sound level.

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

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

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

FXDQ40/50ND

900 mm   200 mm

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

Suspension bolt*   Air filter

AIR

Discharge grille *

240 mm

Suction grille *

AIR   * To be obtained locally

- FXDQ-PD and FXDQ-ND models are available in two types to suit different installation conditions.

  FXDQ-PD/NDVE: with a drain pump (750 mm lift) as a standard accessory
  FXDQ-PD/NDVET: without a drain pump

750 mm

Ceiling
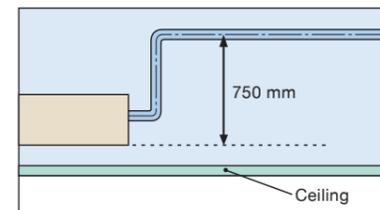
Specifications

MODEL	with drain pump		FXDQ20PDVE	FXDQ25PDVE	FXDQ32PDVE	FXDQ40NDVE	FXDQ50NDVE	FXDQ63NDVE
	without drain pump		FXDQ20PDVET	FXDQ25PDVET	FXDQ32PDVET	FXDQ40NDVET	FXDQ50NDVET	FXDQ63NDVET
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz					
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption (FXDQ-PD/NDVE)[1]	Cooling	kW	0.086		0.089	0.160	0.165	0.181
	Heating		0.067		0.070	0.147	0.152	0.168
Power consumption (FXDQ-PD/NDVET)[1]	Cooling	kW	0.067		0.070	0.147	0.152	0.168
	Heating		0.067		0.070	0.147	0.152	0.168
Casing			Galvanised steel plate					
Airflow rate (HH/H/L)		m³/min	8.0/7.2/6.4			10.5/9.5/8.5	12.5/11.0/10.0	16.5/14.5/13.0
		cfm	282/254/226			371/335/300	441/388/353	583/512/459
External static pressure		Pa	30-10[2]			44-15[2]		
Sound level (HH/H/L)[1][3]		dB(A)	28/26/23		28/26/24	30/28/26	33/30/27	33/31/29
Dimensions (H×W×D)		mm	200×700×620			200×900×620		200×1,100×620
Machine weight		kg	23			27	28	31
Piping connections	Liquid (Flare)	mm	φ6.4					φ9.5
	Gas (Flare)		φ12.7					φ15.9
	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. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- [1] : Values are based on the following conditions: FXDQ-PD: external static pressure of 10 Pa; FXDQ-ND: external static pressure of 15 Pa.
- [2] : External static pressure is changeable to set by the remote controller. This pressure means "High static pressure - Standard".(Factory setting is 10 Pa for FXDQ-PD models and 15 Pa for FXDQ-ND models.)
- [3] : The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).

Indoor Unit Lineup

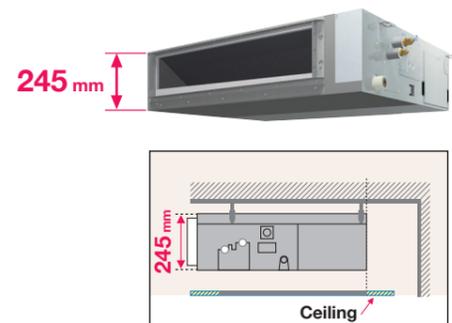## Middle Static Pressure Ceiling Mounted Duct Type — FXSQ-PA

Middle static pressure and slim design allow flexible installations
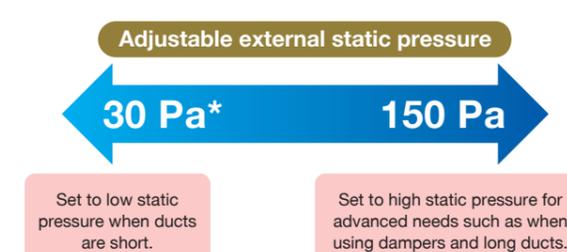

Installation flexibility

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

245 mm

245 mm

Ceiling

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

850 mm

Ceiling

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

Air conditioner | Joist
Air suction
ceiling
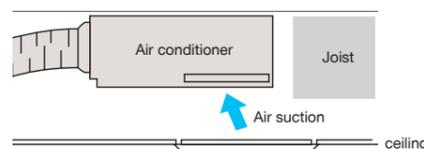
● Air suction direction can be altered from rear to bottom suction.

• Rear suction   • Bottom suction
Shield plate for side plate* (Option)

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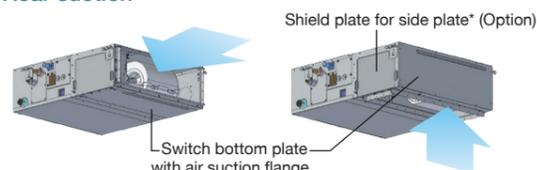
*An optional shield plate for side plate is required if wiring connections and maintenance of control box are needed from under the unit. This option is only available for FXSQ20-125PA models.

Design flexibility

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

Adjustable external static pressure

30 Pa*   150 Pa

Set to low static pressure when ducts are short. | Set to high static pressure for advanced needs such as when using dampers and long ducts.

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

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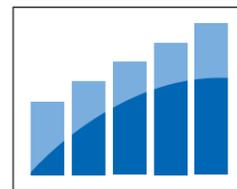50 Pa–150 Pa for FXSQ50-125PAVE
50 Pa–140 Pa for FXSQ140PAVE

Comfort

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

Auto airflow rate
● 5-step airflow rate is automatically controlled in accordance with the difference between room temperature and set temperature.
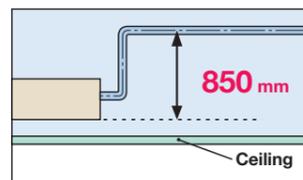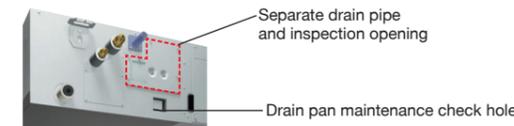Auto airflow rate control can be selected with wired remote controller BRC1E63 and BRC2E61.

Low operation sound level   (dB(A))

FXSQ-PAVE	20/25	32	40	50	63
Sound level (H/M/L)	33/30/28	34/32/30	36/33/30	34/32/29	36/32/29

FXSQ-PAVE	80	100	125	140
Sound level (H/M/L)	37.5/34/30	39/35/32	42/38.5/35	43/40/36

Easy maintenance

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

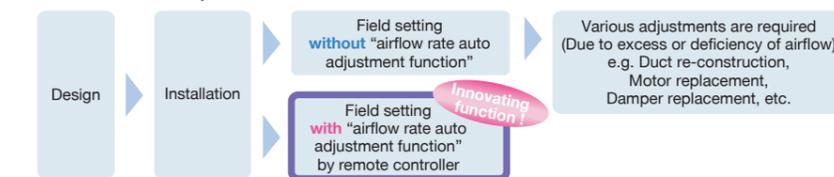Separate drain pipe and inspection opening

Drain pan maintenance check hole

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

Easy installation

**"Airflow rate auto adjustment function" at field setting (local setting by remote controller)**
*This function can only be set via BRC1E63 and BRC2E61.

Design → Installation

Field setting **without** "airflow rate auto adjustment function"

Field setting **with** "airflow rate auto adjustment function" by remote controller

Innovating function !

Various adjustments are required (Due to excess or deficiency of airflow) e.g. Duct re-construction, Motor replacement, Damper replacement, etc.

System operation

Duct resistance at designing system
Actual duct resistance

External static pressure (ESP)
rpm 1, rpm 2, rpm 7, rpm 8
Rated airflow   Airflow

<Mechanism>
1. During field setting, power input of DC fan is detected.
2. External static pressure is estimated from power input of DC fan because PCB of FXSQ-PA has table of external static pressure vs. power input of DC fan.
3. Actual duct resistance is calculated according to 1 and 2.
4. Fan speed is automatically adjusted to produce rated airflow.

Note: • "Airflow rate auto adjustment function" can be adjusted within ±10% of rated airflow. (Refer to Engineering Data Book for details)
• "Airflow rate auto adjustment function" should be used at field setting only.
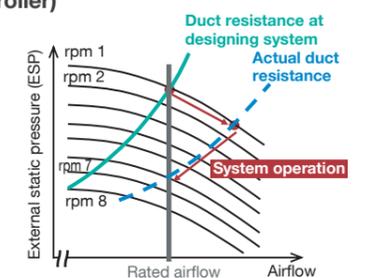
Specifications

MODEL		FXSQ20PAVE	FXSQ25PAVE	FXSQ32PAVE	FXSQ40PAVE	FXSQ50PAVE
Power supply		1-phase, 220-240 V/220 V, 50/60 Hz				
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100
	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
Power consumption	Cooling kW	0.058 *1		0.066 *1	0.101 *1	0.075 *1
	Heating kW	0.053 *1		0.061 *1	0.096 *1	0.070 *1
Casing		Galvanised steel plate				
Airflow rate (H/M/L)	m³/min	9/7.5/6.5		9.5/8/7	15/12.5/10.5	17/14.5/11.5
	cfm	318/265/230		335/282/247	530/441/371	600/512/406
External static pressure	Pa	30-150 (50) *2				50-150 (50) *2
Sound level (H/M/L)	dB(A)	33/30/28		34/32/30	36/33/30	34/32/29
Dimensions (H×W×D)	mm	245×550×800			245×700×800	245×1,000×800
Machine weight	kg	25			27	35
Piping connections	Liquid (Flare)	⌀6.4				
	Gas (Flare) mm	⌀12.7				
	Drain	VP25 (External Dia. 32/Internal Dia. 25)				

MODEL		FXSQ63PAVE	FXSQ80PAVE	FXSQ100PAVE	FXSQ125PAVE	FXSQ140PAVE
Power supply		1-phase, 220-240 V/220 V, 50/60 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
Power consumption	Cooling kW	0.106 *1	0.126 *1	0.151*1	0.206 *1	0.222 *1
	Heating kW	0.101 *1	0.121 *1	0.146*1	0.201 *1	0.217 *1
Casing		Galvanised steel plate				
Airflow rate (H/M/L)	m³/min	21/17.5/14.5	23/19.5/16	32/27/22.5	37/31.5/26	39/33.5/28
	cfm	741/618/512	812/688/565	1,130/953/794	1,306/1,112/918	1,377/1,183/988
External static pressure	Pa	50-150 (50)*2				50-140 (50)*2
Sound level (H/M/L)	dB(A)	36/32/29	37.5/34/30	39/35/32	42/38.5/35	43/40/36
Dimensions (H×W×D)	mm	245×1,000×800		245×1,400×800		245×1,550×800
Machine weight	kg	35	37	46	47	52
Piping connections	Liquid (Flare)	⌀9.5				
	Gas (Flare) mm	⌀15.9				
	Drain	VP25 (External Dia. 32/Internal Dia. 25)				

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

*1: 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 thirteen (FXSQ20-40PA), eleven (FXSQ50-125PA) or ten (FXSQ140PA) levels of control. These values indicate the lowest and highest possible static pressures. The rated static pressure is 50 Pa.

Ceiling Mounted Duct Type — FXMQ-PA / M

Middle and high static pressure allows for flexible duct design

- Using a DC fan motor, the external static pressure can be controlled within a range of 30 Pa* to 200 Pa*.

**Adjustable external static pressure**

30 Pa*   →   200 Pa*

Set to low static pressure when ducts are short.

Set to high static pressure for advanced needs such as when using dampers and long ducts.

Comfortable airflow is achieved in accordance with conditions such as duct length.
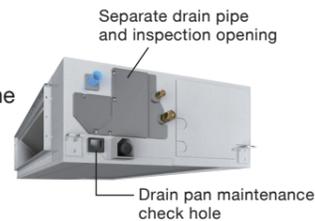
*30 Pa–100 Pa for FXMQ20PA-32PA
*30 Pa–160 Pa for FXMQ40PA
*50 Pa–200 Pa for FXMQ50PA-125PA
*50 Pa–140 Pa for FXMQ140PA

- All models are only 300 mm in height and the weight of the FXMQ40-140PA has been reduced.
- Drain pump is equipped as standard accessory with 700 mm lift.
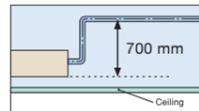
700 mm / Ceiling

- Control of the airflow rate can be selected from 3-step control and Auto. Auto airflow rate control can be selected with wired remote controller BRC1E63 and BRC2E61.
- Low operation sound level
- Energy-efficient
  - DC fan motor is used to realise energy-saving operation.
- Easy maintenance
  - Inspection and cleaning is facilitated by separating the drain pipe and inspection opening and by the drain pan maintenance check hole.

Separate drain pipe and inspection opening

Drain pan maintenance check hole

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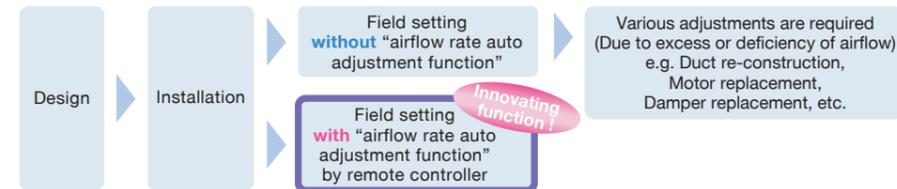
Easy installation

"Airflow rate auto adjustment function" at field setting (local setting by remote controller)

*This function is not available with FXMQ140PAVE.
*This function can only be set via BRC1E63 and BRC2E61.

Design → Installation

Field setting **without** "airflow rate auto adjustment function" → Various adjustments are required (Due to excess or deficiency of airflow) e.g. Duct re-construction, Motor replacement, Damper replacement, etc.

Field setting **with** "airflow rate auto adjustment function" by remote controller — *Innovating function !*

Duct resistance at designing system — **Actual duct resistance**

rpm 1 / rpm 2 / rpm 7 / rpm 8

System operation

External static pressure (ESP) — Rated airflow — Airflow

<Mechanism>
1. During field setting, power input of DC fan is detected.
2. External static pressure is estimated from power input of DC fan because PCB of FXMQ-PA has table of external static pressure vs. power input of DC fan.
3. Actual duct resistance is calculated according to 1 and 2.
4. Fan speed is automatically adjusted to produce rated airflow.

Note: • "Airflow rate auto adjustment function" can be adjusted within ±10% of rated airflow. (Refer to Engineering Data Book for details)
• "Airflow rate auto adjustment function" should be used at field setting only.

FXMQ200/250MVE9
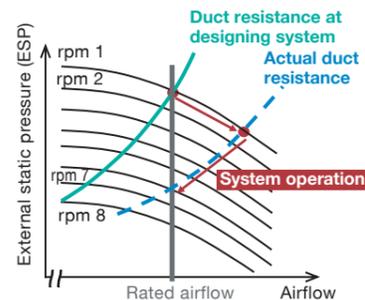
- Simplified Static Pressure Control
  External static pressure can be easily adjusted using a change-over switch inside the electrical box to meet the resistance in the duct system.
- Built-in Drain Pump (Option)
  Housing the drain pump inside the unit reduces the space required for installation.

Without drain pump — 470 mm — Indoor unit — φ25 mm

With drain pump — 470 mm — Indoor unit — 0-250 / 222 mm
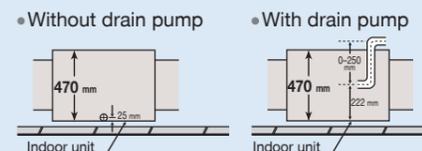
Specifications

MODEL	FXMQ20PAVE	FXMQ25PAVE	FXMQ32PAVE	FXMQ40PAVE	FXMQ50PAVE
Power supply	1-phase, 220-240 V/220 V, 50/60 Hz				
Cooling capacity — Btu/h	7,500	9,600	12,300	15,400	19,100
Cooling capacity — kW	2.2	2.8	3.6	4.5	5.6
Heating capacity — Btu/h	8,500	10,900	13,600	17,100	21,500
Heating capacity — kW	2.5	3.2	4.0	5.0	6.3
Power consumption — Cooling — kW	0.056 *1	0.056 *1	0.060*1	0.151*1	0.128*1
Power consumption — Heating — kW	0.044 *1	0.044 *1	0.048*1	0.139*1	0.116*1
Casing	Galvanised steel plate				
Airflow rate (HH/H/L) — m³/min	9/7.5/6.5	9/7.5/6.5	9.5/8/7	16/13/11	18/16.5/15
Airflow rate (HH/H/L) — cfm	318/265/230	318/265/230	335/282/247	565/459/388	635/582/530
External static pressure — Pa	30-100 (50) *2	30-100 (50) *2	30-100 (50) *2	30-160 (100) *2	50-200 (100) *2
Sound level (HH/H/L) — dB(A)	33/31/29	33/31/29	34/32/30	39/37/35	41/39/37
Dimensions (H×W×D) — mm	300x550x700	300x550x700	300x550x700	300x700x700	300x1,000x700
Machine weight — kg	25	25	25	27	35
Piping connections — Liquid (Flare) — mm	φ6.4				
Piping connections — Gas (Flare) — mm	φ12.7				
Piping connections — Drain — mm	VP25 (External Dia. 32/Internal Dia. 25)				

MODEL	FXMQ63PAVE	FXMQ80PAVE	FXMQ100PAVE	FXMQ125PAVE	FXMQ140PAVE
Power supply	1-phase, 220-240 V/220 V, 50/60 Hz				
Cooling capacity — Btu/h	24,200	30,700	38,200	47,800	54,600
Cooling capacity — kW	7.1	9.0	11.2	14.0	16.0
Heating capacity — Btu/h	27,300	34,100	42,700	54,600	61,400
Heating capacity — kW	8.0	10.0	12.5	16.0	18.0
Power consumption — Cooling — kW	0.138 *1	0.185*1	0.215 *1	0.284 *1	0.405 *1
Power consumption — Heating — kW	0.127 *1	0.173*1	0.203 *1	0.272 *1	0.380 *1
Casing	Galvanised steel plate				
Airflow rate (HH/H/L) — m³/min	19.5/17.5/16	25/22.5/20	32/27/23	39/33/28	46/39/32
Airflow rate (HH/H/L) — 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	50-200 (100) *2	50-200 (100) *2	50-140 (100) *2
Sound level (HH/H/L) — dB(A)	42/40/38	43/41/39	43/41/39	44/42/40	46/45/43
Dimensions (H×W×D) — mm	300×1,000×700	300×1,000×700	300×1,000×700	300×1,400×700	300×1,400×700
Machine weight — kg	35	35	35	45	46
Piping connections — Liquid (Flare) — mm	φ9.5				
Piping connections — Gas (Flare) — mm	φ15.9				
Piping connections — Drain — mm	VP25 (External Dia. 32/Internal Dia. 25)				

Note: Specifications are based on the following conditions;
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- ★ 1: Power consumption values are based on conditions of rated external static pressure.
- ★ 2: External static pressure can be modified using a remote controller that offers seven (FXMQ20-32PA), thirteen (FXMQ40PA), fourteen (FXMQ50-125PA) or ten (FXMQ140PA) levels of control. These values indicate the lowest and highest possible static pressures. The rated static pressure is 50 Pa for FXMQ20-32PA and 100 Pa for FXMQ40-140PA.

MODEL	FXMQ200MVE9	FXMQ250MVE9
Power supply	1-phase, 220-240 V/220 V, 50/60 Hz	
Cooling capacity — Btu/h	76,400	95,500
Cooling capacity — kW	22.4	28.0
Heating capacity — Btu/h	85,300	107,500
Heating capacity — kW	25.0	31.5
Power consumption — Cooling — kW	1.294 *1	1.465 *1
Power consumption — Heating — kW	1.294 *1	1.465 *1
Casing	Galvanised steel plate	
Airflow rate (H/L) — m³/min	58/50	72/62
Airflow rate (H/L) — cfm	2,047/1,765	2,542/2,189
External static pressure — Pa	132-221*2	191-270*2
Sound level (H/L) — 220 V — dB(A)	48/45	
Sound level (H/L) — 240 V — dB(A)	49/46	
Dimensions (H×W×D) — mm	470×1,380×1,100	
Machine weight — kg	137	
Piping connections — Liquid (Flare) — mm	φ9.5	
Piping connections — Gas (Brazing) — mm	φ19.1	φ22.2
Piping connections — Drain — mm	PS1B	

Note: Specifications are based on the following conditions;
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- ★ 1: 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".

Indoor Unit Lineup

Ceiling Suspended Type

FXHQ-MA / A

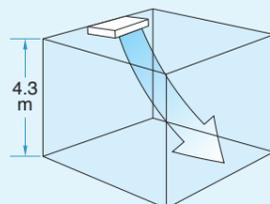| FXHQ32 / 63 / 100MA | FXHQ125 / 140A |

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

  4.3 m

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

- Drain pump kit (option) includes a silver ion antibacterial agent that assists in preventing the growth of slime, bacteria, and mould that cause smells and clogging.

- Wireless LCD remote controller
  - A signal receiver must be added to the indoor unit.
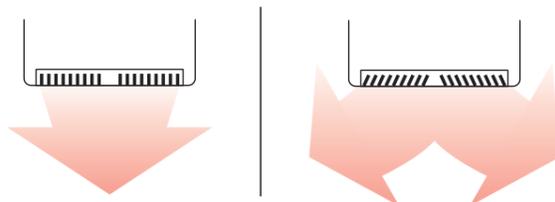
  BRC7M53

  Signal receiver unit (Installed type)
  Wireless remote controller is supplied in a set with a signal receiver.
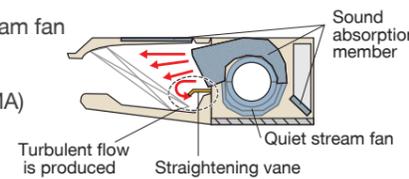
Comfort

- 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)

  Sound absorption member
  Quiet stream fan
  Turbulent flow is produced
  Straightening vane

  dB(A)

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

Easy maintenance

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

  Non-dew flap

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

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

Installation flexibility

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

    [Required installation space (mm)]

    30 or more   30 or more
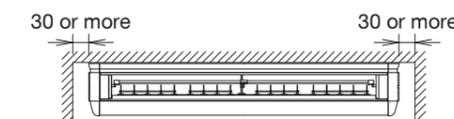
    *Water used in the test-run can be drained from the air discharge opening rather than from the side as was formerly the case.

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

    600 mm

    Drain pump kit (built inside the unit)
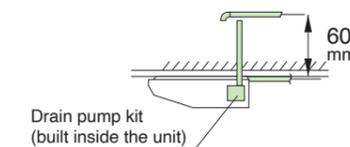
- All wiring and internal servicing can be done from under the unit.

- The rear side removable frame allows ease of access for piping work.
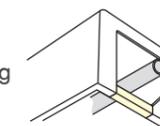
Specifications

MODEL			FXHQ32MAVE	FXHQ63MAVE	FXHQ100MAVE	FXHQ125AVM	FXHQ140AVM
Power 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
Power consumption	Cooling	kW	0.111	0.115	0.135	0.168	0.181
	Heating		0.111	0.115	0.135	0.168	0.181
Casing			Sheet Metal / White (10Y9/0.5)			Sheet Metal / White	
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)		dB(A)	36/-/31	39/-/34	45/-/37	46/41/37	48/42/37
Dimensions (H×W×D)		mm	195×960×680	195×1,160×680	195×1,400×680	235×1,590×690	
Machine weight		kg	24	28	33	41	
Piping connections	Liquid (Flare)	mm	ϕ6.4	ϕ9.5			
	Gas (Flange)		ϕ12.7	ϕ15.9			
	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. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Indoor Unit Lineup

Wall Mounted Type

FXAQ-A

Stylish flat panel design harmonised with your interior décor

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

An invisible air intake at the top of the unit

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

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

Wireless LCD remote controller
- A signal receiver must be added to the indoor unit.

BRC7M675

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

- Stylish flat panel design creates a graceful harmony that enhances any interior space.
- Flat panel can be cleaned with only the single pass of a cloth across their smooth surface.
  Flat panel can also be easily removed and washed for more thorough cleaning.
- Drain pan and air filter can be kept clean by mould-proof polystyrene.
- Flexible installation
  • Drain pipe can be fitted to from either left or right sides.
- Drain pump kit is available as optional accessory, which lifts the drain 1,000 mm from the bottom of the unit.

Height of drain-up

1,000 mm

Drain pump kit   Indoor unit
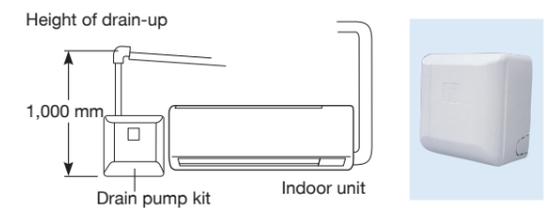
External EV kit (for heating operation) (Option)

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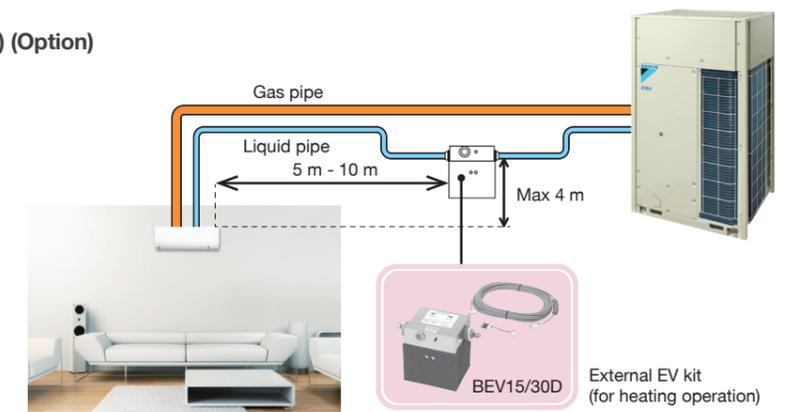
Gas pipe

Liquid pipe
5 m - 10 m

Max 4 m

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

BEV15/30D   External EV kit (for heating operation)

Specifications

MODEL			FXAQ20AVM	FXAQ25AVM	FXAQ32AVM	FXAQ40AVM	FXAQ50AVM	FXAQ63AVM
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz					
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption	Cooling	kW	0.040	0.040	0.040	0.050	0.060	0.100
	Heating		0.040	0.040	0.050	0.050	0.070	0.110
Casing			Resin / White N9.5					
Airflow rate (H/L)		m³/min	9.1/7.0	9.4/7.0	9.8/7.0	12.2/9.7	15.0/12.0	19.0/14.0
		cfm	321/247	332/247	346/247	431/342	530/424	671/494
Sound level (H/L)	Cooling	dB(A)	33.0/28.5	35.0/28.5	37.5/28.5	37.0/33.5	41.0/35.5	46.5/38.5
	Heating		34.0/28.5	36.0/28.5	38.5/28.5	38.0/33.5	42.0/35.5	47.0/38.5
Dimensions (H×W×D)		mm	290×795×266				290×1,050×269	
Machine weight		kg	12				15	
Piping connections	Liquid (Flare)	mm	⌀6.4					⌀9.5
	Gas (Flange)		⌀12.7					⌀15.9
	Drain		VP13 (External Dia. 18/Internal Dia. 15)					

Note: Specifications are based on the following conditions;
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, 15°CWB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Indoor Unit Lineup

Floor Standing Type — FXLQ-MA

Suitable for perimeter zone air conditioning

- Floor Standing types can be hung on the wall for easier cleaning. Running the piping from the back allows the unit to be hung on walls. Cleaning under the unit, where dust tends to accumulate, is considerably easier.

- The adoption of a fibre-less discharge grille featuring an original design to prevent condensation also helps prevent staining and makes cleaning easier.

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

Wall hanging   Floor installation

Specifications

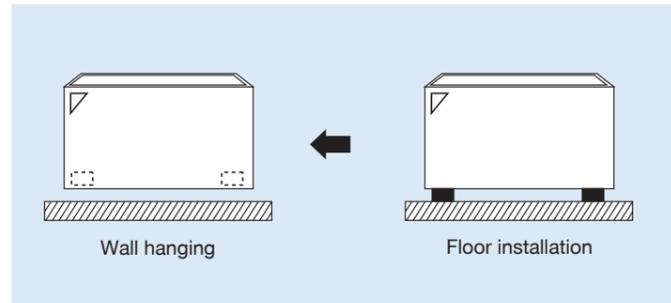| MODEL			FXLQ20MAVE	FXLQ25MAVE	FXLQ32MAVE	FXLQ40MAVE	FXLQ50MAVE	FXLQ63MAVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz					
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption	Cooling	kW	0.049		0.090		0.110	
	Heating	kW	0.049		0.090		0.110	
Casing			Ivory white (5Y7.5/1)					
Airflow rate (H/L)		m³/min	7/6		8/6	11/8.5	14/11	16/12
		cfm	247/212		282/212	388/300	494/388	565/424
Sound level (H/L)	220 V	dB(A)	35/32			38/33	39/34	40/35
	240 V		37/34			40/35	41/36	42/37
Dimensions (H×W×D)		mm	600×1,000×222		600×1,140×222		600×1,420×222	
Machine weight		kg	25		30		36	
Piping connections	Liquid (Flare)	mm	φ6.4					φ9.5
	Gas (Flare)		φ12.7					φ15.9
	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. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Concealed Floor Standing Type — FXNQ-MA

Designed to be concealed against the wall

- The unit is concealed against the wall, that enables to create high class interior design.

- The connecting port faces downward, greatly facilitating on-site piping work.

  Connecting port
  Refrigerant piping
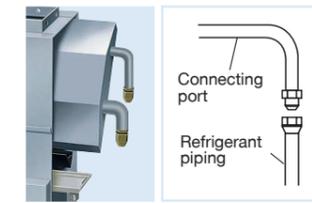
  * Applies also to Floor Standing type (FXLQ-MA).

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

Specifications

MODEL			FXNQ20MAVE	FXNQ25MAVE	FXNQ32MAVE	FXNQ40MAVE	FXNQ50MAVE	FXNQ63MAVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz					
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption	Cooling	kW	0.049		0.090		0.110	
	Heating	kW	0.049		0.090		0.110	
Casing			Galvanised steel plate					
Airflow rate (H/L)		m³/min	7/6	7/6	8/6	11/8.5	14/11	16/12
		cfm	247/212	247/212	282/212	388/300	494/388	565/424
Sound level (H/L)	220 V	dB(A)	35/32			38/33	39/34	40/35
	240 V		37/34			40/35	41/36	42/37
Dimensions (H×W×D)		mm	610×930×220		610×1,070×220		610×1,350×220	
Machine weight		kg	19.0		23.0		27.0	
Piping connections	Liquid (Flare)	mm	φ6.4					φ9.5
	Gas (Flare)		φ12.7					φ15.9
	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. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Indoor Unit Lineup

Slim Ceiling Mounted Duct Type — CDXS-EA, FDXS-C

Slim and smooth design suits your shallow ceiling

- Models in the CDXS-EA series are only 700 mm in width and 21 kg in weight, made the installation easy in limited spaces. With only 200 mm in height, all models can be installed in rooms with as little as 240 mm depth between the drop ceiling and ceiling slab, making them ideal for even shallow ceilings.

CDXS-EA

Great for hotel use!

Only 700 mm

200 mm

240 mm

Signals from the wireless remote controller are transmitted to the signal receiver.

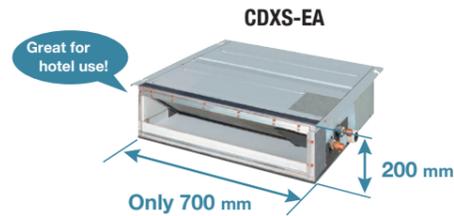|	CDXS25EA	CDXS35EA	FDXS25C	FDXS35C
Dimensions (H x W x D)	200 x 700 x 620 mm		200 x 900 x 620 mm	
Weight	21 kg		25 kg	
Airflow rate (H)	8.7 m³/min		9.5 m³/min	10 m³/min
External static pressure	30 Pa		40 Pa	

Standard accessory
Note: Remote controllers other than the standard accessory wireless remote controller cannot be used.

- Low operation sound level

(H/L/SL)

C(F)DXS25	C(F)DXS35	FDXS50	FDXS60
35/31/29 dB (A)	35/31/29 dB (A)	37/33/31 dB (A)	38/34/32 dB (A)

- Home Leave Operation prevents large increase or decrease in the indoor temperature by continuing operation* while someone is sleeping or left the house. This means that an air-conditioned welcome awaits when someone wakes up or returns. It also means that the indoor temperature can quickly return to the preferred comfort setting.
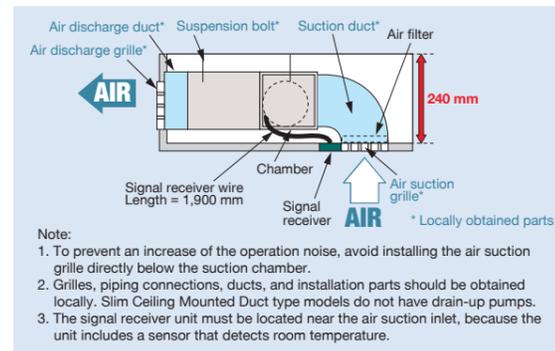
* Home Leave Operation can be selected for any temperature from 18 to 32°C for cooling operation and 10 to 30°C for heating operation.
* Home Leave Operation function must be set using the remote controller when going to sleep or leaving the house, and after waking up or returning home.

Air discharge duct*   Suspension bolt*   Suction duct*   Air filter
Air discharge grille*

AIR

240 mm

Signal receiver wire Length = 1,900 mm   Chamber   Air suction grille*

Signal receiver   AIR   * Locally obtained parts

Note:
1. To prevent an increase of the operation noise, avoid installing the air suction grille directly below the suction chamber.
2. Grilles, piping connections, ducts, and installation parts should be obtained locally. Slim Ceiling Mounted Duct type models do not have drain-up pumps.
3. The signal receiver unit must be located near the air suction inlet, because the unit includes a sensor that detects room temperature.

Specifications

MODEL		CDXS25EAVMA	CDXS35EAVMA	FDXS25CVMA	FDXS35CVMA	FDXS50CVMA	FDXS60CVMA
Power supply		1-phase, 220-240 V/220-230 V, 50/60 Hz					
Airflow rates (H)	m³/min (cfm)	8.7 (307)		9.5 (335)	10.0 (353)	12.0 (424)	16.0 (565)
Sound levels (H/L/SL)*	dB (A)	35/31/29			37/33/31		38/34/32
Fan speed		5 steps, quiet and automatic					
Temperature control		Microcomputer control					
Dimensions (H×W×D)	mm	200×700×620		200×900×620			200×1,100×620
Machine weight	kg	21		25		27	30
Piping connections	Liquid (Flare)	φ6.4					
	Gas (Flare) mm	φ9.5				φ12.7	
	Drain	VP20 (External Dia. 26/Internal Dia. 20)					
Heat insulation		Both liquid and gas pipes					
External static pressure	Pa	30				40	

Note: * The operation sound level values represent those for rear-suction operation and an external static pressure of 30 Pa for CDXS-EA and 40 Pa for FDXS-C. Sound level values for bottom-suction operation can be obtained by adding 6 dB (A) for CDXS-EA and 5 dB (A) for FDXS-C.

Wall Mounted Type — FTXS-D/E/F

FTXS20D / FTXS25E / FTXS35E

Standard accessory*

FTXS50F / FTXS60F / FTXS71F

Standard accessory*

* Remote controllers other than the standard accessory wireless remote controller cannot be used.

Stylish flat panel harmonises with your interior décor

- Wall Mounted indoor units achieve quiet sound levels of 22 dB (A).

(H/L/SL)

FTXS20/25	FTXS35	FTXS50	FTXS60	FTXS71
37/25/22 dB (A)	38/26/23 dB (A)	44/35/32 dB (A)	45/36/33 dB (A)	46/37/34 dB (A)

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

When you are in the room   When you go out

- 3-D Airflow combines Vertical and Horizontal Auto-Swing to circulate air to every part of a room for uniform cooling of even large spaces.

* This function is available for FTXS50/60/71F.

A uniform temperature is achieved throughout the entire room.

- **Titanium Apatite Deodorising Filter**
  While the filter's micron-level fibres trap dust, titanium apatite effectively adsorbs odours and allergens, as well as deodorises odours.

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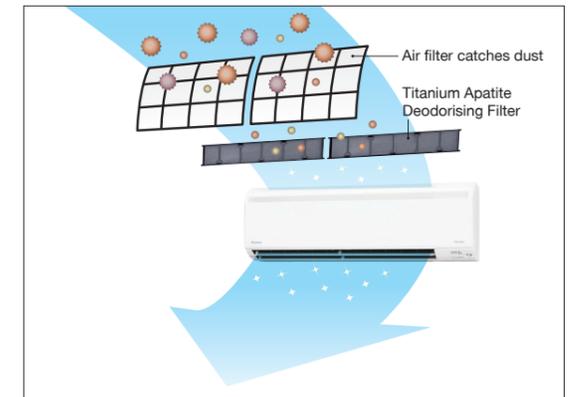
This filter is not a medical device. Benefits such as the adsorption of odours and allergens and deodorisation of odours are only effective for substances which are directly attached to the Titanium Apatite Deodorising Filter.

Specifications

MODEL			FTXS20DVMA	FTXS25EVMA	FTXS35EVMA	FTXS50FVMA	FTXS60FVMA	FTXS71FVMA
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz					
Front panel colour			White					
Airflow rates (H)	Cooling	m³/min (cfm)	8.7 (307)	8.9 (314)	14.7 (519)	16.2 (572)	17.4 (614)
	Heating		9.4 (332)	9.7 (342)	16.2 (572)	17.4 (614)	21.5 (759)
Sound levels (H/L/SL)	Cooling	dB (A)	37/25/22	38/26/23	44/35/32	45/36/33	46/37/34
	Heating		37/28/25	38/29/26	44/35/32		46/37/34
Fan speed			5 steps, quiet and automatic					
Temperature control			Microcomputer control					
Dimensions (H×W×D)		mm	283×800×195			290×1,050×238		
Machine weight		kg	9			12		
Piping connections	Liquid (Flare)		φ 6.4					
	Gas (Flare)	mm	φ 9.5			φ 12.7		φ 15.9
	Drain		φ 18.0					
Heat insulation			Both liquid and gas pipes					

Indoor Unit Lineup

■ BP Units for Connection to Residential Indoor Units

The BP units can be installed inside the ceiling.

Connectable to Residential Indoor Units

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

Quiet Operating Sound

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

BP unit

Min. sound level 22 dB(A)

Daikin's air treatment systems creating a higher air quality environment

Components of Indoor Air Quality

Ventilation   Humidification

Air Processing*

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

A recent trend rapidly gaining popularity is for air treatment to be required as well as air conditioning. Daikin's Outdoor-Air Processing Unit can combine fresh air treatment and air conditioning, supplied from a single system. It adjusts the temperature of air from outdoors using a fixed discharge temperature control. Along with Outdoor-Air Processing Units, we also offer Heat Reclaim Ventilator systems. The Heat Reclaim Ventilator VAM 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 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.

Specifications

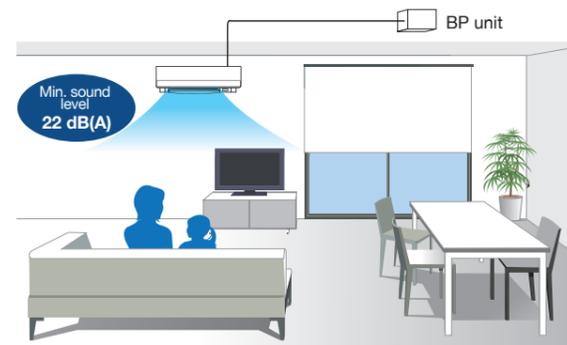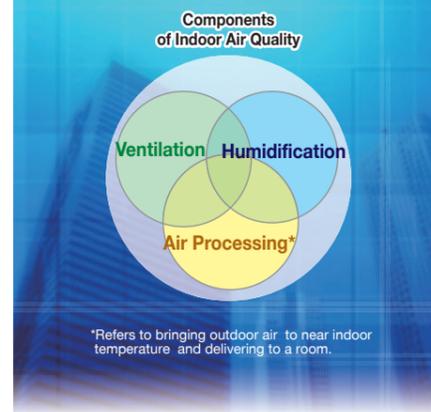| MODEL			BPMKS967A3	BPMKS967A2
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz	
Number of ports			3 (connectable to 1-3 indoor units)	2 (connectable to 1-2 indoor units)
Power consumption	W		10	
Running current	A		0.05	
Dimensions (HXWXD)	mm		180X294 (+356*)X350	
Machine weight	kg		8	7.5
Number of wiring connections			3 for power supply (including earth wiring), 2 for interunit wiring (outdoor unit-BP, BP-BP), 4 for interunit wiring (BP-indoor unit)	2 for power supply (including earth wiring), 2 for interunit wiring (outdoor unit-BP, BP-BP), 3 for interunit wiring (BP-indoor unit)
Piping connections (Brazing)	Liquid	Main	φ9.5X1	
		Branch	φ6.4X3	φ6.4X2
	Gas	Main	φ19.1X1	
		Branch	φ15.9X3	φ15.9X2
Heat insulation			Both liquid and gas pipes	
Connectable indoor units			2.0 kW class to 7.1 kW class	
Min. rated capacity of connectable indoor units	kW		2.0	
Max. rated capacity of connectable indoor units	kW		20.8	14.2

BPMKS967A3

BPMKS967A2

Note: * Total auxiliary piping length.

		Outdoor-Air Processing Unit	Heat Reclaim Ventilator		
			VKM Type	VKM Type	VAM Type
Connections with *VRV* systems	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/60 Hz
Airflow Rate		1080 m³/h, 1680 m³/h, 2100 m³/h	500 m³/h, 800 m³/h, 1000 m³/h		150 m³/h, 250 m³/h, 350 m³/h, 500 m³/h, 650 m³/h, 800 m³/h, 1000 m³/h, 1500 m³/h, 2000 m³/h

Ventilation Humidification Air Processing*

*Refers to bringing outdoor air to near indoor temperature and delivering to a room.
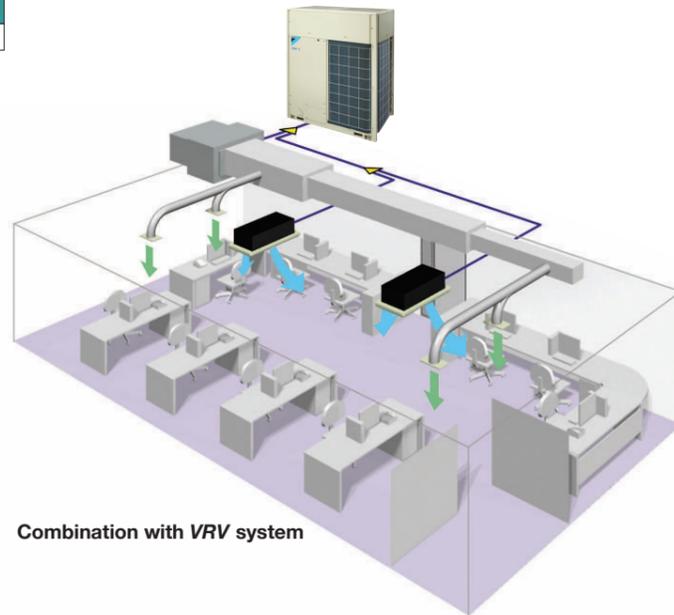
■ Outdoor-Air Processing Unit

Combine fresh air treatment and air conditioning, supplied from a single system.

Lineup

| Model Name	FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1
Capacity Index	125	200	250

Fresh air treatment and air conditioning can be achieved with a single system by using heat pump technology—without the usual troublesome air supply and air discharge balance design. Fan coil units for air conditioning and an outdoor-air processing unit can be connected to the same refrigerant line. This results in enhanced design flexibility and significant reduction in total system costs.

Combination with *VRV* system

Air conditioning and outdoor air processing can be accomplished using a single system.

VRV Outdoor Units

Outdoor-Air Processing Unit

Indoor Unit   Indoor Unit

Air Conditioning

Outdoor Air Supply
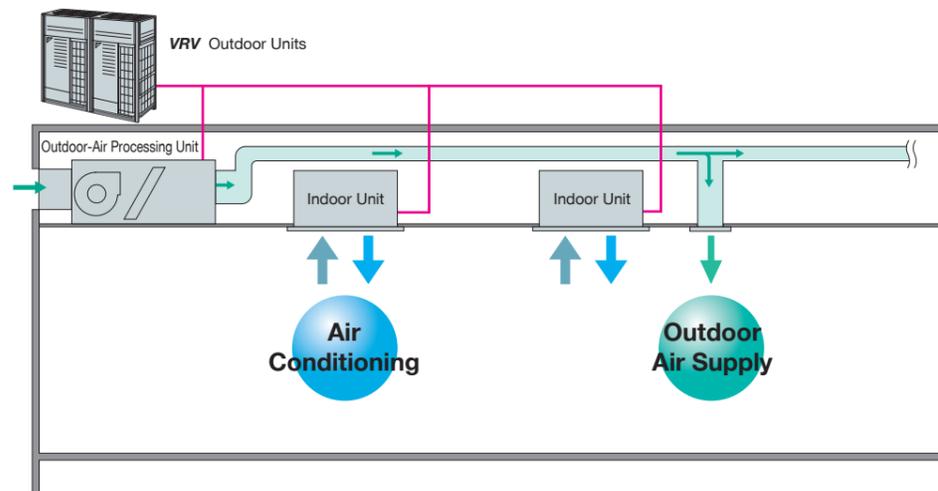
Connection Conditions
The following restrictions must be observed in order to maintain the indoor units connected to the same system.

• When outdoor-air processing units are connected, the total connection capacity index must be 50% to 100% of the capacity index of the outdoor units.
• When outdoor-air processing units and standard indoor units are connected, the total connection capacity index of the outdoor-air processing units must not exceed 30% of the capacity index of the outdoor units.
  Because connection is possible depending on conditions even when the capacity index of outdoor-air processing units exceeds 30% of the capacity index of the outdoor units, contact your local distributor.
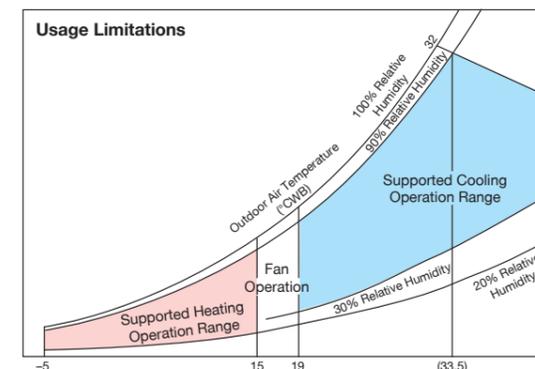• Outdoor-air processing units can be used without indoor units.

• The unit introduces outdoor air and adjusts the outdoor air temperature via fixed discharge temperature control, thereby reducing the air conditioning load.
  * The system can operate with outdoor-air temperatures ranging from -5 to 43°C. Heating performance is somewhat adversely affected when the outdoor-air temperature is 0°C or below.
  * When shipped from the factory, the thermostat is set at 18°C for cooling. The set temperature can be varied within the range of 13–25°C during cooling operation, in the local setting mode using the wired remote controller. The temperature, however, is not displayed on the remote controller.
  * While in machine protection mode and depending on outdoor air conditions, discharge air temperature may not be at the set temperature.
  * The fan stops when operating in defrosting, oil returning and hot start operations. The fan may stop due to mechanical protection control.

• Ceiling mounted duct units with three different capacities are available. These can be connected to *VRV* series outdoor units to meet a variety of different requirements.

Airflow rate

FXMQ125MFV1	1,080 m³/h
FXMQ200MFV1	1,680 m³/h
FXMQ250MFV1	2,100 m³/h

• Optional equipment includes long-life filters.

• Compatible with outdoor temperatures from -5°C to 43°C.

Usage Limitations

Supported Cooling Operation Range

Outdoor Air Temperature (°CWB)

100% Relative Humidity

90% Relative Humidity

30% Relative Humidity

20% Relative Humidity

Fan Operation

Supported Heating Operation Range

−5   15   19   (33.5)   43

Note:
1. The data shown in the graph illustrates the supported operation ranges under the following conditions.
   Indoor and Outdoor Unit
   Effective piping length: 7.5 m
   Height differential: 0 m
2. The discharge temperature can be set using the remote controller. However, the actual temperature may not match the temperature setting under some circumstances due to the outdoor-air processing load or mechanical protection controls.
3. The system will not operate in fan mode when the outdoor air temperature is 5°C or below.

• High-performance filters with dust collection efficiencies (JIS calorimetry) of 90% and 65% are also available as options.

• For the *VRV* system, a variety of control systems can be deployed, including remote control from distances of up to 500 m.
  * Group control is not possible between this unit and standard type indoor units. Remote controllers connect to each unit separately.

BRC1E63
Navigation Remote Controller
(Wired remote controller)
(option)

• The "self-diagnosis function" indicates the occurrence and nature of abnormalities in the system by displaying codes on the remote controller.

• A central control system compatible with the *VRV* system can be installed.
  * It is not possible to change the discharge air temperature settings from the central control system.
  * Do not associate this equipment in areas which standard indoor units are installed, as central control cannot be used with them.

DCS302CA61
Central remote controller
(option)

• With the *VRV* system, the equipment employs the "super wiring system" so that the wiring linking the indoor and outdoor units can also be utilised for central control.

Note:
• Linked control of the product and the Heat Reclaim Ventilator is not supported.
• This equipment is intended for the treatment of outdoor air only. It is not to be used for maintaining indoor air temperature. Installing or use with standard indoor units. Be sure to position the air discharge openings of the product in positions where the airflow will not blow on people directly. When outdoor-air processing is in excess, the unit switches to thermo-off mode, and outdoor air flows into the room directly.
• For outdoor ducts, be sure to provide heat insulation to prevent condensation.
• Group control of the product and standard indoor units is not supported. A separate remote controller should be connected to individual unit.
• The system will not operate in fan mode when the outdoor air temperature is 5°C or below.
• If the product is utilised to operate 24 hours a day, maintenance (part replacement, etc.) must be performed periodically.
* Temperature setting and Power Proportional Distribution (PPD) are not possible even if the intelligent Touch Controller or the intelligent Touch Manager is installed.
* The remote controller wired to the outdoor-air processing unit must not be set as the master remote controller. Otherwise, when set to "Auto," the operation mode will switch according to the outdoor air conditions, regardless of the indoor temperature.

■ Standard Specifications

Indoor unit

Type		Ceiling Mounted Duct Type		
Model		**FXMQ125MFV1**	**FXMQ200MFV1**	**FXMQ250MFV1**
Power supply		1-phase 220-240 V (also required for indoor units), 50 Hz		
Cooling capacity *1	Btu/h	47,800	76,400	95,500
	kW	14.0	22.4	28.0
Heating capacity *1	Btu/h	30,400	47,400	59,400
	kW	8.9	13.9	17.4
Power consumption	kW	0.359	0.548	0.638
Casing		Galvanised steel plate		
Dimensions (HXWXD)	mm	470X744X1,100	470X1,380X1,100	
Fan	Motor output	kW	0.380		
	Airflow rate	m³/min	18	28	35
		cfm	635	988	1,236
	External static pressure	220 V/240 V	Pa	185/225	225/275	205/255
Air filter		*2		
Refrigerant piping	Liquid	mm	ϕ 9.5 (flare)		
	Gas	mm	ϕ 15.9 (flare)	ϕ 19.1 (brazing)	ϕ 22.2 (brazing)
	Drain	mm	PS1B female thread		
Machine weight	kg	86	123	
Sound level *3	220 V/240 V	dB(A)	42/43	47/48	
Connectable outdoor units *4		6 HP and above	8 HP and above	10 HP and above
Operation range (Fan mode operation between 15 and 19°C)	Cooling	19 to 43°C		
	Heating	-5 to 15°C		
Range of the discharge temperature *5	Cooling	13 to 25°C		
	Heating	18 to 30°C		

Note : *1. Specifications are based on the following conditions;
- Cooling: Outdoor temp. of 33°CDB, 28°CWB (68% RH), and discharge temp. of 18°CDB.
- Heating: Outdoor temp. of 0°CDB, -2.9°CWB (50% RH), and discharge temp. of 25°CDB.
- Equivalent reference piping length: 7.5 m (0 m horizontal)

*2. An intake filter is not supplied, so be sure to install the optional long-life filter or high-efficiency filter. Please mount it in the duct system of the suction side. Select a dust collection efficiency (gravity method) of 50% or more.

*3. Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. These values are normally somewhat higher during actual operation as a result of ambient 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 unit.

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

■ Options

Indoor unit

	Model	FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1
Operation/control	Operation remote controller	BRC1E63 / BRC2E61		
	Central remote controller	DCS302CA61		
	Unified ON/OFF controller	DCS301BA61		
	Schedule timer	DST301BA61		
	Wiring adaptor for electrical appendices (1)	KRP2A61		
	Wiring adaptor for electrical appendices (2)	KRP4AA51		
Filters	Long-life replacement filter	KAFJ371L140	KAF371M280	
	High-efficiency filter — Colourimetric method 65%	KAFJ372L140	KAF372M280	
	High-efficiency filter — Colourimetric method 90%	KAFJ373L140	KAF373M280	
	Filter chamber *1	KDJ3705L140	KDJ3705L280	
PM2.5 filtration unit *2		BAF429A20A		
PM2.5 with activated carbon filtration unit *2		BAF429A20AC		
Drain pump kit		KDU30L250VE		
Adaptor for wiring		KRP1B61		

Note : *1. Filter chamber has a suction-type flange. (Main unit does not.)
- Dimensions and weight of the equipment may vary depending on the options used.
- Some options may not be usable due to the equipment installation conditions, so please confirm prior to ordering.

*2. Refer to page 72-74 for details.

- Some options may not be used in combination.
- Operating sound may increase somewhat depending on the options used.

■ Dimensions

FXMQ125/200/250MFV1
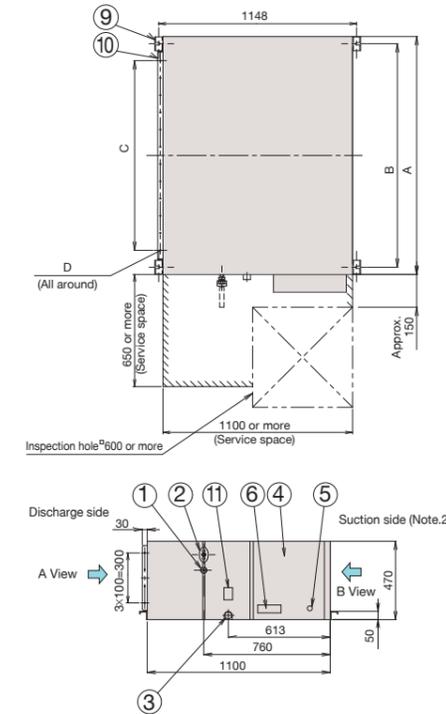
*These diagrams are based on FXMQ200 and FXMQ250MFV1.

Local connection piping size

Model	Gas piping diameter	Liquid piping diameter
FXMQ125MFV1	ϕ15.9	ϕ9.5
FXMQ200MFV1	ϕ19.1 attached piping	ϕ9.5
FXMQ250MFV1	ϕ22.2 attached piping	ϕ9.5

Table of dimensions

Model	A	B	C	D
FXMQ125MFV1	744	685	5X100=500	20-ϕ4.7 hole
FXMQ200MFV1	1380	1296	11X100=1100	32-ϕ4.7 hole
FXMQ250MFV1	1380	1296	11X100=1100	32-ϕ4.7 hole

Note:
1. The attached piping in the diagram is for FXMQ200MFV1 and FXMQ250MFV1 only. The gas piping connection port (②) in the diagram) has a different bore form with FXMQ125MFV1.
2. An air filter is not supplied with this unit. Be sure to mount an air filter in the suction side. [Use a filter with dust collection efficiency of at least 50% (gravimetric method). This is available as an option.]
3. For outdoor ducts, be sure to provide heat insulation to prevent condensation.

① Liquid pipe connection
② Gas pipe connection
③ Drain piping connection
④ Electric parts box
⑤ Ground terminal
⑥ Name plate
⑦ Power supply wiring connection
⑧ Transmission wiring connection
⑨ Hanger bracket
⑩ Discharge companion flange
⑪ Water supply port
⑫ Attached piping (Note. 1)

FXMQ200/250MFV1

FXMQ125MFV1
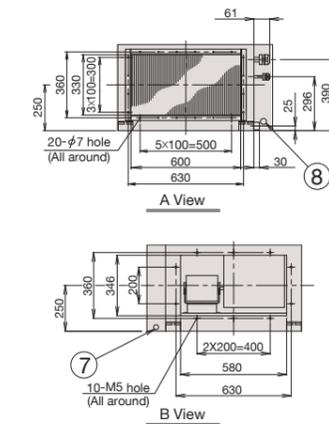
■ Control Systems

Individual control systems for VRV systems

Stylish remote controller (Option) `New`

BRC1H62W (White)   BRC1H62K (Black)

A complete redesigned controller focused to enhance user experience

iF | reddot design award

Sleek and stylish design

- 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)

SIMPLE VIEW   ON/OFF   Customisable example

Easy and direct access to main functions

Fan speed   Louvre setting
Mode selection
(cooling, heating, fan only, etc.)

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 and higher temperature in heating mode.
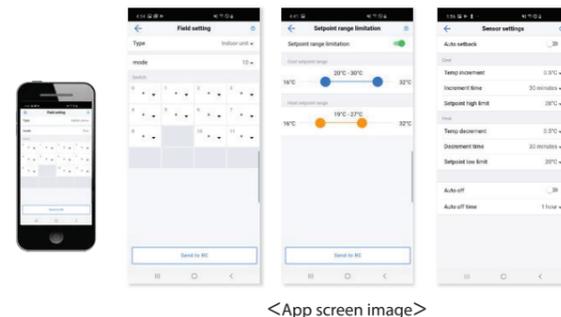
Shorter installation time

- 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>

Navigation remote controller (Wired remote controller) (Option)

BRC1E63

A series of user friendly functions that can be individually selected

Energy saving

Setpoint range set
- Avoids excessive cooling or heating by limiting the min. and max. set temperature.
- Convenient for use at a place where any number of people may operate it.
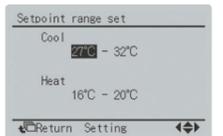
Setpoint auto reset
- Even if the set temperature is changed, the new set temperature returns to the previous preset value after a preset duration of time.
- Period selectable from 30, 60, 90, or 120 min.
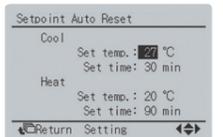
Off timer
- Period can be preset from 30 to 180 minutes in 10-minute increments.

Convenience

Setback (default: OFF)
- Maintains the room temperature in a specific range during unoccupied period by temporarily starting air conditioner that was turned OFF.

Weekly schedule
- 5 actions per day can be scheduled for each day of the week.
- The holiday function will disable schedule timer for the days that have been set as holiday.
- 3 independent schedules can be set. (e.g. summer, winter, mid-season)
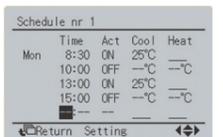
Auto display off
- Period can be preset from 10, 30, 60 minutes, and OFF. Initial setting is 30 minutes.

Comfort

Individual airflow direction
- Airflow direction can be individually adjusted for each air discharge outlet.

5-step airflow control
- Airflow rate can be selected from 5-step control.

Auto airflow rate
- Airflow rate is automatically controlled.

Control Systems

Control Systems

■ Individual Control Systems for *VRV* Systems

Simplified 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

* The number of airflow steps and availability of auto airflow rate and swing mode depend on the type of indoor unit.
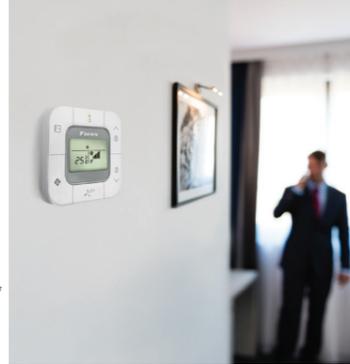
Intuitive design

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

Compact size

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

Wireless remote controller (Option)

Signal receiver unit
(Installed type)

BRC-M series

Signal receiver unit
(Separate type)

BRC-C, E series

•The wireless remote controller is supplied in a set with a signal receiver.
•Signal receiver unit of installed type is contained inside decoration panel or indoor unit.
•Shape of signal receiver unit differs according to the indoor unit.
Note: The signal receiver unit shown in the photograph is for mounting inside the decoration panel of FXF(S)Q series.

•Backlight LCD of new wireless remote controller

Pressing the backlight button helps operating in dark rooms.

•A compact signal receiver unit (separate type) to be mounted into a wall or ceiling is included.

* Wireless remote controller and signal receiver unit are sold as a set.
* Refer to page 94 for the name of each model.

Wide variation of remote controllers for *VRV* indoor units

	FXFSQ	FXFQ	FXZQ	FXUQ	FXCQ	FXKQ	FXDQ	FXSQ	FXMQ	FXHQ	FXAQ	FXL(N)Q
Navigation remote controller (BRC1E63)	●	●	●	●	●	●	●	●	●	●	●	●
Simplified remote controller (BRC2E61)		●	●	●	●	●	●	●	●	●	●	●
Wireless remote controller* (Installed type signal receiver unit)	●	●	●	●	●					●	●	
Wireless remote controller* (Separate type signal receiver unit)						●	●	●	●			●

*Refer to page 94 for the name of each model.

The wired remote controller supports a wide range of control functions

● **Control of Cool/Heat changeover** In all the series of *VRV*, Cool/Heat changeover in the same refrigerant circuit can be changed by the remote controller of the indoor unit.

Outdoor unit

Equipment related to the central control

·**Group control**
One remote controller can control the operation of max.16 indoor units at the same time.

Remote controller

Remote controller

Indoor unit

Remote controller

Remote controller

Forced OFF input

Remote controller

Remote controller

Remote controller

Remote controller

Heat Reclaim Ventilator

Remote controller

Remote controller

| **1** | **2** | **3** | **4** |

| **1** Control by two remote controllers |
The indoor unit can be connected by the two remote controllers, for example one in the room and the other one in the control room, which can control the operation of indoor unit freely.(The last command has a priority.)
Of course, the group control by two remote controllers is also possible.

| **2** Remote control |
The wiring of remote controller can be extended to max. 500 m and it is possible to install the remote controllers for different indoor units in one place.

| **3** Control for the combined operation |
The operation of Heat Reclaim Ventilator can be controlled by the remote controller of the indoor unit. Of course, the remote controller can display the time to clean the filter.

| **4** Expansion of system control |
The system can be expanded to add several controllers, such as BMS, Forced OFF input and etc.

Control Systems

Control Systems

■ Integrated Building Monitoring System

The high speed transmission of DIII-NET enables more advanced control of the **VRV** system, providing you with enhanced comfort.

Legend
- ——— DIII-NET Line
- ——— BACnet®/Ethernet or LONWORKS® Network Communication Line
- – – – Contact Signal Line
- ——— RS485 Modbus Line

The DIII-NET system provides for:
- Close control and monitoring by integrating a wide variety of air-conditioners in the entire building.
- Saves the in-building cabling using non-polar, two-wire cables. Easier wiring work with tremendously fewer wiring errors.
- Additional setups readily up and running. An extendable cabling up to 2 km in total.
- Different control equipment flexibly joined in the system for hierarchical risk diversification.
- Daikin's total heat exchangers and other devices under integral control.

Controllers for Centralised Control

intelligent touch Manager

(DCM601A51)

Via internet

Via internet

ACC Centre

Air Conditioning Network Service System
(There are restrictions in applicable areas and release times, therefore please consult us separately for details.)
(Optional Maintenance Service)

intelligent Controller
(DCS601C51)

Residential central remote controller (DCS303A51)

Central Remote Controller (DCS302CA61)

Unified ON/OFF Controller (DCS301BA61)

Schedule Timer (DST301BA61)

BMS
(Obtain locally)

Home Automation Master Controller

Control /Connection Interface

Unification adaptor for computerised control (DCS302A52)

Home Automation Interface Adaptor (DTA116A51)

Interface for use in BACnet® (DMS502B51)

Interface for use in LONWORKS® (DMS504B51)

Wiring adaptor for electrical appendices (KRP2A61/62/53)

DIII-NET
(High Speed Multiple Transmission)

DIII-NET, Daikin's unique high speed multiple transmission system, links air conditioners and various other building equipment—in accordance with applications, scale and conditions—and transmits vast amounts of information between them.

Interface Adaptor for SkyAir Series (DTA112BA51)

Central Control Adaptor Kit (DTA107A55)

Interface Adaptor for DIII-NET use (KRP928BB2S)

Di unit (DEC101A51)
Dio unit (DEC102A51)

VRV

Heat Reclaim Ventilator

SkyAir

* No adaptor is required for some indoor units.

Packaged Air-conditioner

Residential Air-conditioner

Building services equipment
- Electrical equipment
- Supply water and drainage equipment
- Automatic fire alarm
- Parking equipment
- Lift
- Ventilation equipment
- Lighting
- Crime and fire prevention equipment

VRV

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.

■ Advanced Control Systems for *VRV* Systems

intelligent touch Manager

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

DCM601A51

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

Individual air-conditioning control

The flexible control achieved by the *VRV* system precisely meets different air conditioning needs in each room (e.g. offices, conference rooms, hotel rooms).

Lighting control DALI-compatible

DALI-compatible LED lighting systems can be controlled and monitored. Lighting control is enhanced through an interlock function with air conditioners and other functions.

Air-conditioning control for large spaces

Air handling units can also be controlled. Large spaces, such as entrance halls and shopping malls, can be easily controlled to ensure comfort.
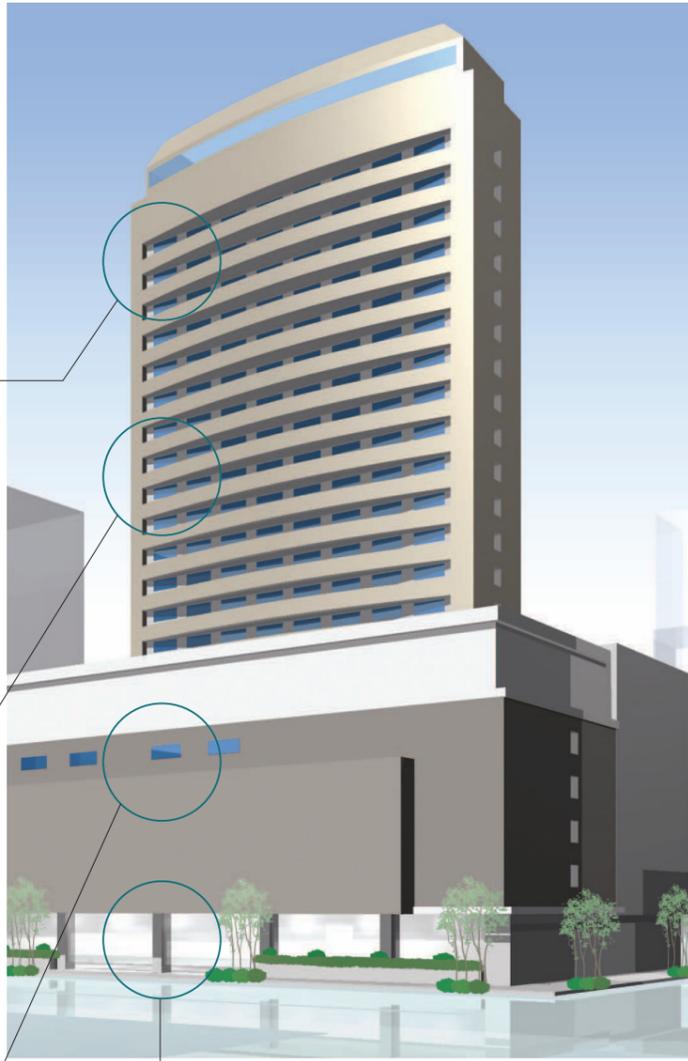
Building equipment control

Various types of equipment other than air conditioners, including ventilators, fans, and pumps, can also be controlled.

Pump   Fan
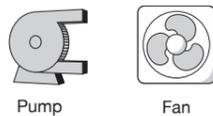
For Energy Saving & Comfort

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.

Office: 8:00-18:00
Reception: 9:00-17:00
Machine room: 24 hours
Admin: 8:30-17:00
Manager room: 8:00-20:00
Common area: 9:00-17:00
Meeting room: No schedule

Define the setpoint range that users can change.

With Remote controller

This heat is killing me.
Very cold.
16°C

With Control System

Set point range 22°C - 28°C
Why?
It can not be set below this
Oh! Cool.
22°C

Turn the unit OFF if a user didn't.

Working hours (Scheduled)
Turn ON again by remote controller, forgot to turn OFF, and left.
Saved power consumption by control system
8:00   17:00   18:30   8:00
Turn off as scheduled
Automatically turn OFF to cut wasteful operation

Reset setpoint regularly.

Change to **20°C**
Stop   Start
24°C
20°C
Saved power consumption by control system
8:00   10:00   18:00   8:00
Set at 24°C   Reset to 24°C

Advanced Control Systems for *VRV* Systems

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

Lighting control (Option)

Connection to DALI - compatible lighting control system

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

DALI-compatible

Please contact your local sales office for details.

Air conditioning and lighting for which power consumption is high can be efficiently controlled to promote energy conservation and cost reduction!

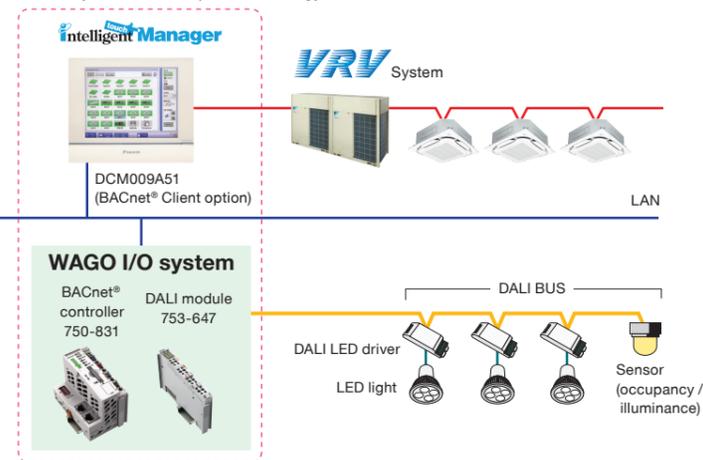**Lighting control achieved by the *intelligent Touch Manager***

[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

intelligent Manager

DCM009A51
(BACnet® Client option)

VRV System

LAN

WAGO I/O system

BACnet® controller 750-831

DALI module 753-647

DALI BUS

DALI LED driver

LED light

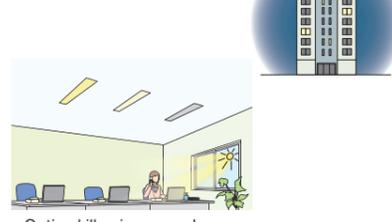Sensor (occupancy / illuminance)

[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 BAS simplifies wiring and setting work by daisy chain wiring and automatic address setting.

Easy maintenance and energy saving by lighting control

Case1

Switch-on / switch-off and illuminance are controlled based on a schedule to cut wasteful power consumption.
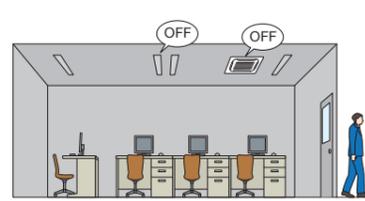
• Failing to switch off lights is prevented.

• Optimal illuminance reduces energy.

Case2

Occupancy sensors are used to eliminate both wasteful lighting and air conditioning.
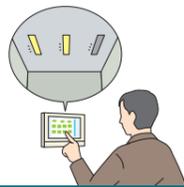When a room is unoccupied, the air conditioning stops and the lighting is switched off.

OFF   OFF

Case3

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

Lighting maintenance becomes easier and quicker.

The layout screen enables quick identification of specific locations.

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.

Tenant A HIGH

Tenant B LOW

Tenant C MEDIUM

Operational information of individual indoor units

・Operation duration
・Room temperature
・Expansion valve opening ratio

intelligent Manager

DCM601A51 + DCM002A51*
Automatic calculation of total power consumption of individual indoor units

Pulse signal from the kWh meter

kWh meter

Tenant B
Tenant A | Tenant C

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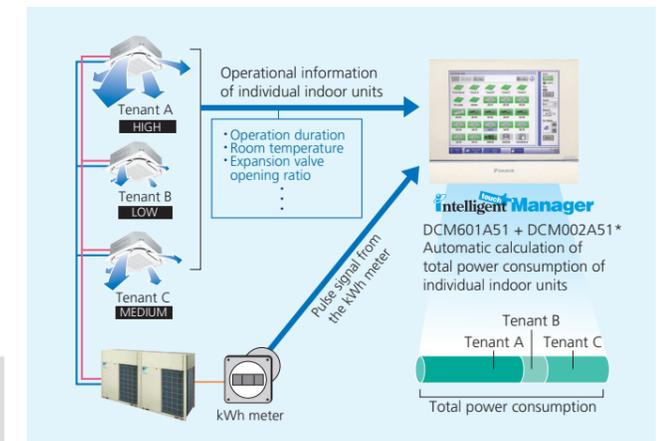
*PPD (Power Proportional Distribution) is Daikin's proprietary calculation method.

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)

Internet / Ethernet

Reiri for Office DCPF01

User's PC

HUB

intelligent Manager
DCM601A51 + DCM002A51*

VRV

Owner setting screen   Setup screen   *VRV* electricity bill screen
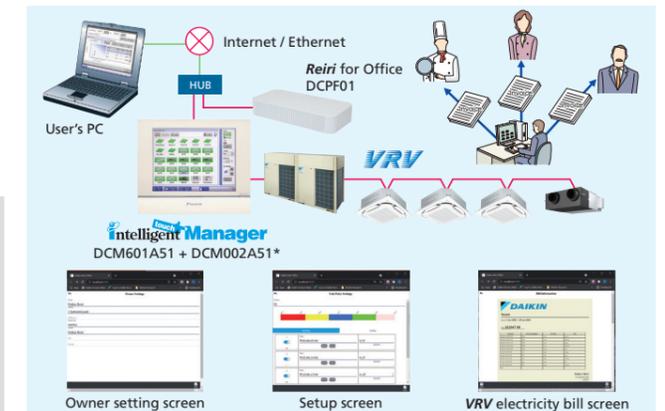
*PPD (Power Proportional Distribution) is Daikin's proprietary calculation method.

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

For buildings   *VRV* Smartphone Remote Controller

Up to 1024 indoor units can be controlled.

Just add *Reiri* for Office DCPF01 to this system

DCPF01

LAN cable

intelligent Manager
DCM601A51

WiFi router

VRV Indoor unit

VRV Outdoor unit

Smartphone

You can control *VRV* system from anywhere through WiFi
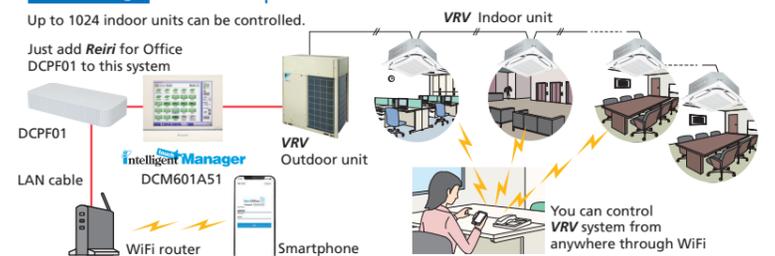
Intelligent Touch Manager system overview

Air Conditioning Network Service System

Web Access via Internet

Web Access via LAN

100Mbps Ethernet

USB Flash drive

Up to 650 management points

Di/Pi Line

Fire alarm   kWh meter

Operation from a smartphone

Smartphone

WiFi router

Tenant billing

Web Access via LAN

Reiri for Office

DCPF01

BACnet® / IP

Air Handling Unit

3rd party BACnet® controller

WAGO I/O system

BACnet® controller 750-831   DALI module 753-647

WAGO I/O up to 30 nodes

Pump   Fan   Sensor   Keycard switch

DALI BUS

DALI LED driver

LED light

Sensor (occupancy / illuminance)

DALI BUS

DALI LED driver

LED light

Sensor (occupancy / illuminance)

DALI BUS

DALI LED driver

LED light

Sensor (occupancy / illuminance)

DⅢ-NET

Up to 512 groups (1024 indoor units)

One DⅢ-NET system
Max. 64 indoor unit groups (128 indoor units)

iTM Plus Adaptor

Di/Pi port

Max. 64 indoor unit groups

Max. 64 indoor unit groups

Max. 64 indoor unit groups

Up to 7 Adaptors

KRP 928BB2S

Residential A/C

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.

Trouble

Even malfunctions difficult to identify can be monitored remotely.

Allows dispatching of service engineers without a call from customers.

intelligent Manager

Repair

Enable prompt repairs as service engineers know the cause of the problem beforehand.

ACC centre
Personnel at the centre monitor the occurrence of malfunctions and track their cause via the Internet.
Advance malfunction warnings help prevent the sudden occurrence of problems later.
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

Convenient controllers that offer more freedom to administrators

Ease of use and expanded control functions

The user-friendly controller features colours, multilingual function, and icons in the display for ease of understanding. A wide variety of control methods can be accommodated, permitting administrators to monitor and operate the system even when they are away from the controller.
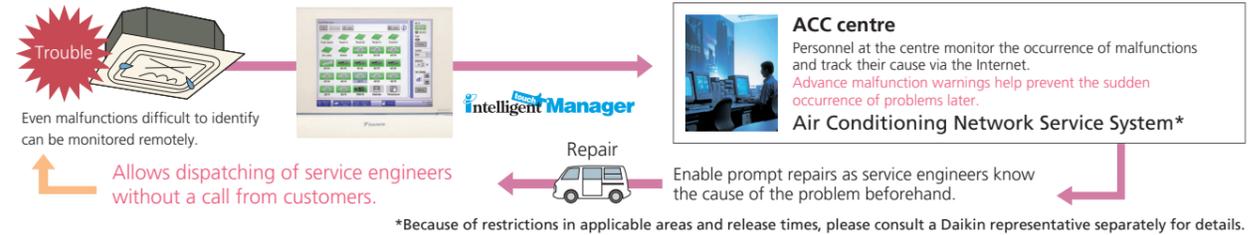
intelligent Controller

DCS601C51

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.

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

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

Reiri for Office (Touchscreen Controller)

Router   *VRV* Outdoor unit   Office   Hotel   Home
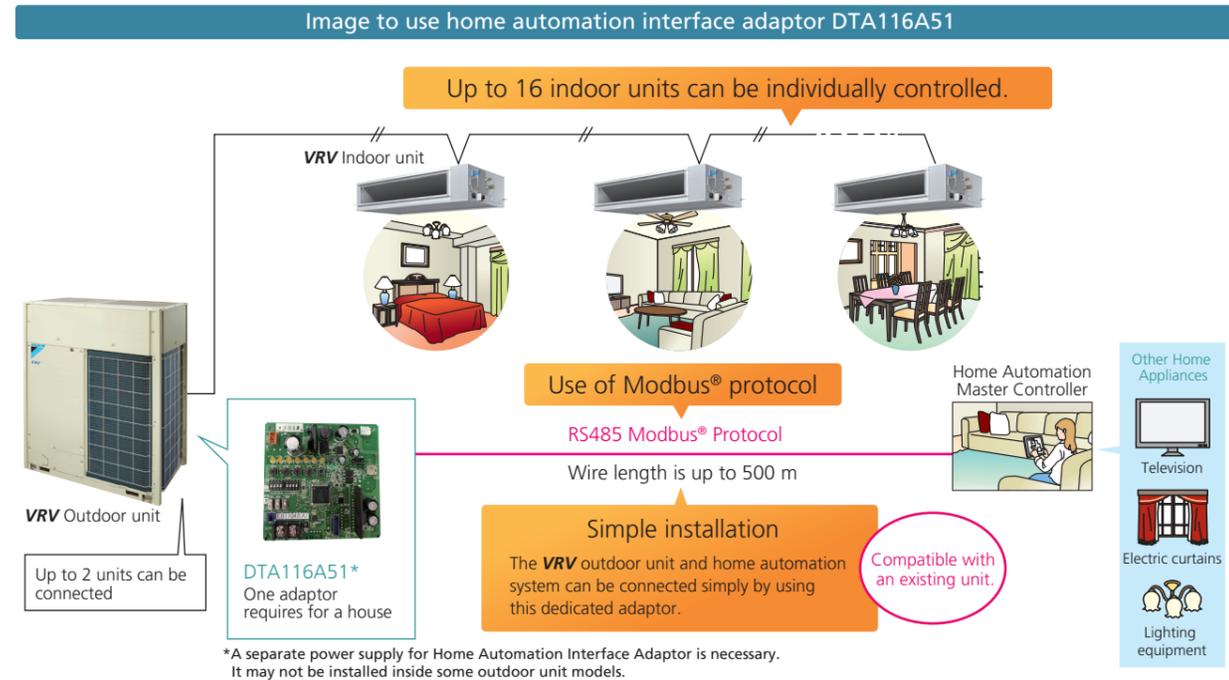
For Office   Building Automation System
For Home   Smart Home Solution
For Hotel   Air Conditioning Guestroom Interlocking Management

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

Up to 16 indoor units can be individually controlled.

VRV Indoor unit

Use of Modbus® protocol

RS485 Modbus® Protocol

Wire length is up to 500 m

Home Automation Master Controller

Other Home Appliances

Television

VRV Outdoor unit

Up to 2 units can be connected

DTA116A51*
One adaptor requires for a house

Simple installation

The **VRV** outdoor unit and home automation system can be connected simply by using this dedicated adaptor.

Compatible with an existing unit.

Electric curtains

Lighting equipment

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

Functions

Monitor

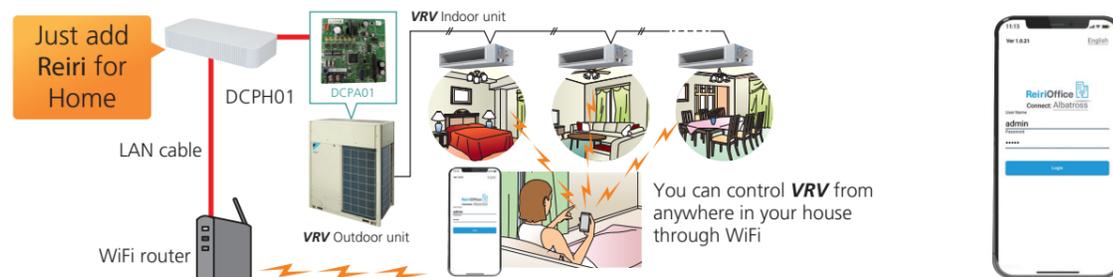|	
On/Off	On/Off status of indoor units
Operation mode	Cooling, Heating, Fan, Dry, Auto (depend on indoor unit capability)
Setpoint	Setpoint of indoor units
Room temperature	Suction temperature of indoor units
Fan direction	Swing, Flap direction (depend on indoor unit capability)
Fan volume	L, M, H (depend 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.

VRV Smartphone Control System

VRV Smartphone Control System can be realized by *Reiri* which is a new product to utilize DCPA01.

Just add Reiri for Home

DCPH01

DCPA01

VRV Indoor unit

LAN cable

WiFi router

VRV Outdoor unit

You can control **VRV** from anywhere in your house through WiFi

ReiriOffice
Connect Altibross

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

Option List

■ Outdoor Units

VRV H SERIES High-COP Type

No. / Item	Type → RXYQ12AH RXYQ14AH RXYQ16AH RXYQ18AH RXYQ20AH	RXYQ22AH	RXYQ24AH	RXYQ26AH RXYQ28AH RXYQ30AH RXYQ32AH RXYQ34AH RXYQ36AH
1 Distributive piping REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)			KHRP26M22H, KHRP26M33H, (Max. 4 branch) (Max. 8 branch) KHRP26M72H, KHRP26M73H (Max. 8 branch) (Max. 8 branch)
REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T		KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T	
2 Pipe size reducer	–		KHRP26M73TP, KHRP26M73HP	
3 Outdoor unit multi connection piping kit	BHFP22P100		BHFP22P151	
4 Cool/Heat selector	KRC19-26A			

Option PCB

No. / Item	Type → RXYQ12AH RXYQ14AH RXYQ16AH	RXYQ18AH RXYQ20AH RXYQ22AH	RXYQ24AH RXYQ26AH RXYQ28AH	RXYQ30AH RXYQ32AH RXYQ34AH	RXYQ36AH
1 DIII-NET expander adaptor	DTA109A51				
2 External control adaptor	DTA104A61				
3 Modbus communication adaptor	DTA116A51				

VRV H SERIES Standard Type

No. / Item	Type → RXYQ6A RXYQ8A RXYQ10A	RXYQ12A RXYQ14A RXYQ16A	RXYQ18A RXYQ20A	RXYQ22A
1 Distributive piping REFNET header	KHRP26M22H, KHRP26M33H (Max. 4 branch) (Max. 8 branch)	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)		
REFNET joint	KHRP26A22T, KHRP26A33T	KHRP26A22T, KHRP26A33T, KHRP26A72T		
2 Outdoor unit multi connection piping kit	–			BHFP22P100
3 Cool/Heat selector	KRC19-26A			

No. / Item	Type → RXYQ24A	RXYQ26A RXYQ28A RXYQ30A RXYQ32A RXYQ34A RXYQ36A	RXYQ38A RXYQ40A RXYQ42A RXYQ44A	RXYQ46A RXYQ48A RXYQ50A RXYQ52A	RXYQ54A RXYQ56A RXYQ58A RXYQ60A
1 Distributive piping REFNET header	KHRP26M22H, KHRP26M33H, (Max. 4 branch) (Max. 8 branch) KHRP26M72H (Max. 8 branch)	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)			
REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T				
2 Pipe size reducer	KHRP26M73TP, KHRP26M73HP				
3 Outdoor unit multi connection piping kit	BHFP22P100		BHFP22P151		
4 Cool/Heat selector	KRC19-26A				

Option PCB

No. / Item	Type → RXYQ6A RXYQ8A RXYQ10A RXYQ12A	RXYQ14A RXYQ16A RXYQ18A RXYQ20A	RXYQ22A RXYQ24A	RXYQ26A RXYQ28A RXYQ30A RXYQ32A RXYQ34A RXYQ36A	RXYQ38A RXYQ40A RXYQ42A RXYQ44A RXYQ46A RXYQ48A	RXYQ50A RXYQ52A RXYQ54A RXYQ56A RXYQ58A RXYQ60A
1 DIII-NET expander adaptor ★	DTA109A51					
2 External control adaptor ★	DTA104A61					
3 Modbus communication adaptor ★	DTA116A51					
4 Option plate for control adaptor	–	BKS26A *1	–		BKS26A *1	

Note: *1. This plate is necessary for each adaptor marked ★.

Control Systems

■ *VRV* Indoor Units

Ceiling Mounted Cassette (Round Flow with Sensing) Type

No.	Item		Type	FXFSQ25A FXFSQ32A FXFSQ40A	FXFSQ50A FXFSQ63A FXFSQ80A	FXFSQ100A FXFSQ125A FXFSQ140A
1	Decoration panel	Standard panel with sensing	Fresh white	BYCQ125EEF		
			Black	BYCQ125EEK		
		Standard panel	Fresh white	BYCQ125EAF *		
			Black	BYCQ125EAK *		
		Designer panel [1]	Fresh white	BYCQ125EAPF *		
		Auto grille panel [2,3]	Fresh white	BYCQ125EBSF		
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			KDB55J160F		
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%)		KAF556D80		KAF556D160
		(Colorimetric method 90%)		KAF557D80		KAF557D160
6	Replacement high-efficiency filter [9,10]	(Colorimetric method 65%)		KAF552D80		KAF552D160
		(Colorimetric method 90%)		KAF553D80		KAF553D160
7	Filter chamber			KDDFP55C160		
8	Replacement long-life filter			KAF5511D160		
9	Replacement long-life filter (Auto grille panel)			KAF5512D160		
10	Ultra long-life filter unit (Including filter chamber) [9]			KAF555D160		
11	Replacement ultra long-life filter [9,10]			KAF550D160		
12	Branch duct chamber [4]			KDJP55C80		KDJP55C160
13	Insulation kit for high humidity [9,11]			KDTP55K80A		KDTP55K160A

Ceiling Mounted Cassette (Round Flow) Type

No.	Item		Type	FXFQ25A FXFQ32A FXFQ40A	FXFQ50A FXFQ63A FXFQ80A	FXFQ100A FXFQ125A FXFQ140A
1	Decoration panel	Standard panel	Fresh white	BYCQ125EAF *		
			Black	BYCQ125EAK *		
		Designer panel [1]	Fresh white	BYCQ125EAPF *		
		Auto grille panel [2,3]	Fresh white	BYCQ125EBSF		
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			KDB55J160F		
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%)		KAF556D80		KAF556D160
		(Colorimetric method 90%)		KAF557D80		KAF557D160
6	Replacement high-efficiency filter [9,10]	(Colorimetric method 65%)		KAF552D80		KAF552D160
		(Colorimetric method 90%)		KAF553D80		KAF553D160
7	Filter chamber			KDDFP55C160		
8	Replacement long-life filter			KAF5511D160		
9	Replacement long-life filter (Auto grille panel)			KAF5512D160		
10	Ultra long-life filter unit (Including filter chamber) [9]			KAF555D160		
11	Replacement ultra long-life filter [9,10]			KAF550D160		
12	Branch duct chamber [4]			KDJP55C80		KDJP55C160
13	Insulation kit for high humidity [9,11]			KDTP55K80A		KDTP55K160A

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.

■ *VRV* Indoor Units

Options of Ceiling Mounted Cassette (Round Flow with Sensing & Round Flow) Type

Options required for specific operating environments

Ultra long-life filter unit

Even in dusty environments where the air conditioning is constantly operating, the ultra long-life filter only has to be cleaned once a year.

Filter chamber
(Can be used with high-efficiency filter)

Ultra long-life filter
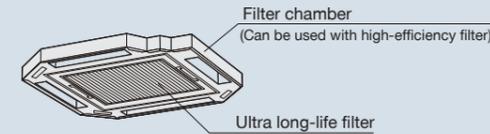
Dusty area: annual filter change
*For dust concentration of 0.3 mg/m³ (Requires separately sold Air purifier.)
1 year (Approx. 5,000 hr) ≒ 15 hr/day x 28 day/month x 12 month/year

Ordinary store or office: filter change every 4 years
*For dust concentration of 0.15 mg/m³
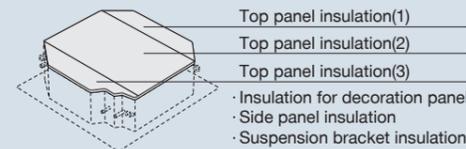4 years (Approx. 10,000 hr) ≒ 8 hr/day x 25 day/month x 12 month/years x 4 years

High-efficiency filter unit

Available in two types: 65% and 90% colorimetry.

Filter chamber
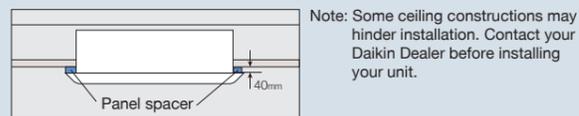(Can be used with ultra long-life filter)

High-efficiency filter

Insulation kit for high humidity

Please use if you think the temperature and humidity inside the ceiling exceeds 30°C and RH 80%, respectively.

Top panel insulation(1)
Top panel insulation(2)
Top panel insulation(3)

· Insulation for decoration panel
· Side panel insulation
· Suspension bracket insulation

Panel spacer

Use when only minimal space is available between drop ceilings and ceiling slabs.

Panel spacer   40mm

Note: Some ceiling constructions may hinder installation. Contact your Daikin Dealer before installing your unit.

### Sealing material of air discharge outlet

Sealing material block air discharge openings not used in 2-way or 3-way blow.

Branch duct chamber

This chamber lets you connect a round flexible duct to the air discharge opening at any time after the original installation.
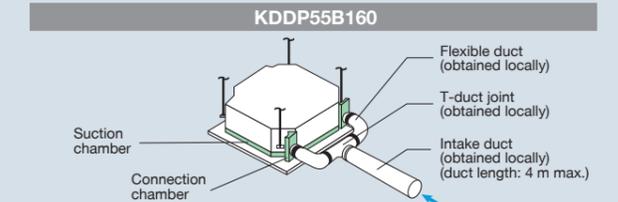
Fresh air intake kit Note 1, 2

Using this kit, a duct can be connected to take in outdoor air. There are two chamber types that have intake in two places: with T-duct joint and without T-duct joint.
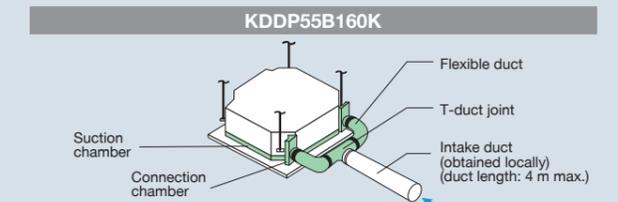
Outside
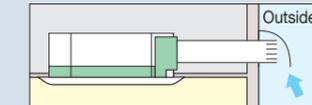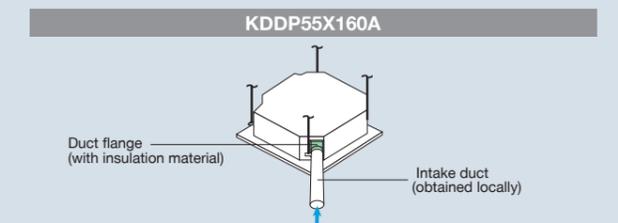
The units can be installed in the following different ways

Chamber type (without T-duct joint) Note 3, 4, 5

KDDP55B160

Suction chamber
Connection chamber
Flexible duct (obtained locally)
T-duct joint (obtained locally)
Intake duct (obtained locally) (duct length: 4 m max.)

Chamber type (with T-duct joint) Note 3, 4, 5

KDDP55B160K

Suction chamber
Connection chamber
Flexible duct
T-duct joint
Intake duct (obtained locally) (duct length: 4 m max.)

Direct installation type Note 6

KDDP55X160A

Duct flange (with insulation material)
Intake duct (obtained locally)

Note: 1. Use of options will increase operating sound.
2. Connecting ducts, fan, insect nets, fire dampers, air filters, and other parts should, as required, be obtained locally.
3. When a local-obtained fan is used, an interlock with air conditioner is necessary. Optional PCB (BRP11B62) is required for interlocking.
4. When installing a fresh air intake kit (chamber type), two air outlet corners are closed.
5. It is recommended that the volume of outdoor air introduced through the kit is limited to 10% of the maximum airflow rate of the indoor unit. Introducing higher quantities will increase the operating sound and may also influence temperature sensing.
6. The volume of fresh air for direct installation type is approximately 1% of the indoor unit airflow.
The chamber type is recommended when more fresh air is necessary.

Option List

Compact Multi Flow Cassette Type

No.	Item	Type	FXZQ20A	FXZQ25A	FXZQ32A	FXZQ40A	FXZQ50A
1-1	Grid ceiling panel		BYFQ60CAW				
1-2	Sensor kit for grid ceiling panel		BRYQ60AAW				
2-1	Decoration panel*1		BYFQ60B3W1				
2-2	Relay wire harness adaptor for decoration panel*1		BER01A1				
2-3	Sealing material of air discharge outlet for decoration panel		KDBH44BA60				
3	Replacement long life filter		KAF441C60				
4	Fresh air intake kit		KDDQ44XA60				

Note: 1. Option relay wire harness adaptor (BER01A1) is necessary when installing decoration panel (BYFQ60B3W1).

4-Way Flow Ceiling Suspended Type

No.	Item	Type	FXUQ71A	FXUQ100A
1	Sealing material of air discharge outlet		KDBHP49B140	
2	Decoration panel for air discharge		KDBTP49B140	
3	Replacement long-life filter		KAF5511D160	

Ceiling Mounted Cassette (Double Flow) Type

No.	Item	Model	FXCQ20A	FXCQ25A	FXCQ32A	FXCQ40A	FXCQ50A	FXCQ63A	FXCQ80A	FXCQ125A
1	Decoration panel		BYBCQ40CF				BYBCQ63CF		BYBCQ125CF	
2	High efficiency filter *1	65 %	KAF532C50				KAF532C80		KAF532C160	
		90 %	KAF533C50				KAF533C80		KAF533C160	
3	Filter chamber for bottom suction		KDDFP53B50				KDDFP53B80		KDDFP53B160	
4	Long life replacement filter		KAF531C50				KAF531C80		KAF531C160	

Note:*1. If installing high efficiency filter, filter chamber is required.

Ceiling Mounted Cassette Corner Type

No.	Item		Type	FXKQ25MA	FXKQ32MA	FXKQ40MA	FXKQ63MA
1	Panel related	Decoration panel		BYK45FJW1			BYK71FJW1
2	Air inlet and air discharge outlet related	Long life replacement filter		KAFJ521F56			KAFJ521F80

Slim Ceiling Mounted Duct Type

No.	Item	Type	FXDQ20PD	FXDQ25PD	FXDQ32PD	FXDQ40ND	FXDQ50ND	FXDQ63ND
1	Insulation kit for high humidity		KDT25N32			KDT25N50		KDT25N63

Middle Static Pressure Ceiling Mounted Duct Type

No.	Item	Type	FXSQ20PA FXSQ25PA FXSQ32PA	FXSQ40PA	FXSQ50PA FXSQ63PA FXSQ80PA	FXSQ100PA FXSQ125PA	FXSQ140PA
1	High efficiency filter *1	65%	KAF632C36	KAF632C56	KAF632C80	KAF632C160	KAF632B160B
		90%	KAF633C36	KAF633C56	KAF633C80	KAF633C160	KAF633B160B
2	Filter chamber (for rear suction) *1		KDDFP63B36	KDDFP63B56	KDDFP63B80	KDDFP63B160	KDDF63B160B
3	Long-life filter *1		KAF631C36	KAF631C56	KAF631C80	KAF631C160	KAF631B160B
4	Service panel	White	KTBJ25K36W	KTBJ25K56W	KTBJ25K80W	KTBJ25K160W	
		Fresh white	KTBJ25K36F	KTBJ25K56F	KTBJ25K80F	KTBJ25K160F	
		Brown	KTBJ25K36T	KTBJ25K56T	KTBJ25K80T	KTBJ25K160T	
5	Air discharge adaptor		KDAP25A36A	KDAP25A56A	KDAP25A71A	KDAP25A140A	KDAP25A160A *2
6	Shield plate for side plate		KDBD63A160				–

Note:*1. If installing high efficiency filter and long-life filter to the unit, filter chamber is required.
*2. This option is a set of KDAP25A140A and KDBHP37A160.

■ *VRV* Indoor Units

Ceiling Mounted Duct Type

No.	Item	Type	FXMQ20PA FXMQ25PA FXMQ32PA	FXMQ40PA	FXMQ50PA FXMQ63PA FXMQ80PA	FXMQ100PA FXMQ125PA FXMQ140PA	FXMQ200M FXMQ250M
1	Drain pump kit		–				KDU30L250VE
2	High efficiency filter	65%	KAF372AA36	KAF372B56	KAF372B80	KAF372B160	KAF372M280
		90%	–	KAF373B56	KAF373B80	KAF373B160	KAF373M280
3	Filter chamber		–	KDDF37AA56	KDDF37AA80	KDDF37AA160	KDJ3705L280
4	Long life replacement filter		–	KAF371B56	KAF371B80	KAF371B160	KAF371M280
5	Long life filter chamber kit		–	KAF375B56	KAF375B80	KAF375B160	–
6	Service panel	White	KTBJ25K36W	KTBJ25K56W	KTBJ25K80W	KTBJ25K160W	–
		Fresh white	KTBJ25K36F	KTBJ25K56F	KTBJ25K80F	KTBJ25K160F	–
		Brown	KTBJ25K36T	KTBJ25K56T	KTBJ25K80T	KTBJ25K160T	–
7	Air discharge adaptor		KDAJ25K36A	KDAJ25K56A	KDAJ25K71A	KDAJ25K140A	–

Ceiling Suspended Type

No.	Item	Type	FXHQ32MA	FXHQ63MA	FXHQ100MA	FXHQ125A	FXHQ140A
1	Drain pump kit		KDU50N60VE	KDU50N125VE		KDU50R160	
2	Replacement long-life filter		KAFJ501D56	KAFJ501D80	KAFJ501D112	KAF501B160	
3	L-type piping kit (for upward direction)		KHFP5M63	KHFP5M160		KHFP5N160	
4	Fresh air intake kit		–			KDDQ50A140	

Wall Mounted Type

No.	Item	Type	FXAQ20A	FXAQ25A	FXAQ32A	FXAQ40A	FXAQ50A	FXAQ63A
1	Drain pump kit		K-KDU572KVE					
2	External EV kit (for heating operation) *1		BEV15D				BEV30D	

Note:*1. This option is only effective for reducing operation sound during heating operation. Therefore it is ineffective when connected to cooling only outdoor units.

Floor Standing Type

No.	Item	Type	FXLQ20MA	FXLQ25MA	FXLQ32MA	FXLQ40MA	FXLQ50MA	FXLQ63MA
1	Long life replacement filter		KAF361L28		KAF361L45		KAF361L71	

Concealed Floor Standing Type

No.	Item	Type	FXNQ20MA	FXNQ25MA	FXNQ32MA	FXNQ40MA	FXNQ50MA	FXNQ63MA
1	Long life replacement filter		KAF361L28		KAF361L45		KAF361L71	

■ Residential Indoor Units with connection to BP units

Slim Ceiling Mounted Duct Type

No.	Item	Type	CDXS25EA	CDXS35EA	FDXS25C	FDXS35C	FDXS50C	FDXS60C
1	Insulation kit for high humidity		KDT25N32			KDT25N50		KDT25N63

Wall Mounted Type

No.	Item	Type	FTXS20D	FTXS25E	FTXS35E	FTXS50F	FTXS60F	FTXS71F
1	Titanium apatite deodorising filter *1		KAF970A46			KAF971B42		

Note: *1. Filter is a standard accessory. It should be replaced approximately 3 years.

BP Units for connection to residential indoor units

No.	Item	Type	BPMKS967A2	BPMKS967A3
1	REFNET joint		KHRP26A22T	

Note: A single BP unit does not require a REFNET joint. 2 BP units require only 1 REFNET joint, and 3 BP units require only 2 REFNET joints.

■ Control Systems

Operation Control System Optional Accessories
For *VRV* indoor unit use

New Design
Remote sensor
BRCS01A-1(4)(5)(6)

No.	Item	Type	FXFSQ-A	FXFQ-A	FXZQ-A	FXCQ-A	FXKQ-MA	FXDQ-PD FXDQ-ND	FXSQ-PA
1	Stylish remote controller		BRC1H62W (White) / BRC1H62K (Black)						
2	Navigation remote controller		BRC1E63 *5		BRC1E63				
3	Simplified remote controller		—		BRC2E61				
4	Wireless remote controller	C/O	BRC7M635F (Fresh White) BRC7M635K (Black)	BRC7M531W (for grid ceiling panel) BRC7E531W (for decoration panel)	BRC7M66	BRC4C63		BRC4C66	
		H/P	BRC7M634F (Fresh White) BRC7M634K (Black)	BRC7M530W (for grid ceiling panel) BRC7E530W (for decoration panel)	BRC7M65	BRC4C61		BRC4C65	
5-1	Adaptor for wiring (operation status output)		★BRP11B62			—		★BRP11B61	★ BRP11B62
5-2	Adaptor for wiring		—		★KRP1C14A	KRP1B61		—	
6-1	Wiring adaptor for electrical appendices (1)		—		★KRP2A62	★KRP2A51	KRP2A61	★KRP2A53	★ KRP2A61
6-2	Wiring adaptor for electrical appendices (2)		★KRP4AA53		★KRP4AA51	KRP4AA51		★KRP4A54	★KRP4AA51
7	Remote sensor (for indoor temperature)		BRCS01A-5		BRCS01A-6		BRCS01A-1		BRCS01A-4
8	Installation box for adaptor PCB☆		KRP1H98A *2, 3		KRP1BB101 *4	KRP1C96 *2, 3	—	KRP1BB101 *4	KRP4A98 *2, 3
9	External control adaptor for outdoor unit		★DTA104A62			★DTA104A61	DTA104A61	★DTA104A53	★DTA104A61
10	Multi tenant unit for Indoor (24 V free type)		★BRP114A61			—			★BRP114A61

| No.	Item	Type	FXMQ-PA	FXMQ-M	FXUQ-A	FXHQ-MA	FXHQ-A	FXAQ-A	FXLQ-MA FXNQ-MA
1	Stylish remote controller		BRC1H62W (White) / BRC1H62K (Black)						
2	Navigation remote controller		BRC1E63	BRC1E63 *5		BRC1E63			
3	Simplified remote controller		BRC2E61						
4	Wireless remote controller	C/O	BRC4C66	BRC4C64	BRC7CB59	BRC7EA66	BRC7M56	BRC7M676	BRC4C64
		H/P	BRC4C65	BRC4C62	BRC7CB58	BRC7EA63W	BRC7M53	BRC7M675	BRC4C62
5-1	Adaptor for wiring (operation status output)		★BRP11B62	BRP11B62	—	★BRP11B61		—	BRP11B62
5-2	Adaptor for wiring		—						
6-1	Wiring adaptor for electrical appendices (1)		★KRP2A61	KRP2A61	—	★KRP2A62	—	★KRP2A61	KRP2A61
6-2	Wiring adaptor for electrical appendices (2)		★KRP4AA51	KRP4AA51	★KRP4AA53	★KRP4AA52		★KRP4AA51	KRP4AA51
7	Remote sensor (for indoor temperature)		BRCS01A-4	BRCS01A-1	BRCS01A-4	BRCS01A-1	BRCS01A-4	BRCS01A-6	BRCS01A-1
8	Installation box for adaptor PCB☆		KRP4A97 *2, 3	—	KRP1BA97	KRP1CA93 *3	KRP1D93A *3	KRP4B93 *2, 3	—
9	External control adaptor for outdoor unit		★DTA104A61	DTA104A61	—	★DTA104A62		★DTA104A61	DTA104A61
10	Multi tenant unit for Indoor (24 V free type)		★BRP114A61		—			★BRP114A61	—

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. Some functions can be set only via the wired remote controller BRC1E63. They cannot be set via other remote controllers. Please refer to each indoor unit and remote controller page for function details.

Adaptor for wiring (operation status output)

BRP11B61   BRP11B62
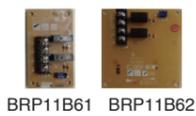
By installing it in the indoor unit with a simple wire connection, this adaptor takes out the operating signals for the indoor unit fan and the compressor and enables the interlocking of equipment such as the ventilation fan.

Example:
Interlocking operation of the indoor unit and ventilation fan that takes in fresh air.

VRV outdoor unit
Ventilation Fan   Adaptor
Indoor Unit
Air Conditioning + Ventilation
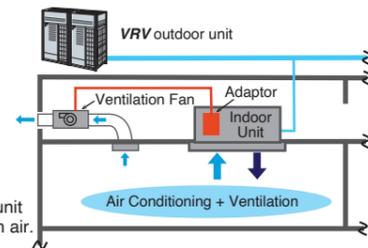
For residential indoor unit use

No.	Item	Type	CDXS-EA FDXS-C	FTXS-D, E, F
1	Remote controller	Wireless type	— *1	
2	Wiring adaptor for time clock/remote controller *2 (Normal open pulse contact/normal open contact)		KRP413BB1S	
3	Remote controller loss prevention chain		KKF917A4	
4	Interface adaptor for DIII-NET use		KRP928BB2S	

Notes: 1. A wireless remote controller is a standard accessory.
2. Time clock and other devices should be obtained locally.

System Configuration

No.	Item	Model No.	Function
1	Residential central remote controller	DCS303A51 *2	• Up to 16 groups of indoor units (128 units) can be easily controlled using the large LCD panel. ON/OFF, temperature settings and scheduling can be controlled individually for indoor units.
2	Interface adaptor for residential indoor units	KRP928BB2S	• Adaptors required to connect products other than those of the *VRV* System to the high-speed DIII-NET communication system adopted for the *VRV* System. * To use any of the above optional controllers, an appropriate adaptor must be installed on the product unit to be controlled.
3	Interface adaptor for SkyAir-series	★DTA112BA51 *3	
4	Central control adaptor kit / For UAT(Y)-K(A),FD-K	★DTA107A55	
5	Wiring adaptor for other air-conditioner	★DTA103A51	
6	DIII-NET expander adaptor	DTA109A51	• Up to 1024 units can be centrally controlled in 64 different groups. • Wiring restrictions (max. length: 1,000m, total wiring length: 2,000m, max. number of branches: 16) apply to each adaptor.
6-1	External control adaptor	DTA104A61	• Demand control of individual or multiple systems. • Low noise option for individual or multiple systems.
6-2	Mounting plate	BKS26A	• When installing DTA109A51, DTA104A61 into outdoor units of 14 HP (VRV H/A) or larger.
7-1	Multi tenant unit for Indoor (24 V free type)	BRP114A61 *4, 5	• Use in multi tenant buildings where one tenant shuts off the breaker of the indoor unit. • Max. length from outdoor unit to last indoor unit per 1 outdoor adaptor is 200 m. • 8 indoor units can be connected per 1 outdoor adaptor.
7-2	Multi tenant unit for Outdoor (24 V free type)	BRP114A62 *4	
7-3	Multi tenant unit Booster (24 V free type)	BRP114A63 *4	• Use when extending transmission length with the multi tenant option. • Can add Max. 3 booster units to 1 system. • Total transmission length is Max. 800 m. • Total connectable indoor units is Max. 32 units.

Notes: 1. Installation box for ★adaptor must be obtained locally.
2. For residential use only. Cannot be used with other centralised control equipment.
3. No adaptor is required for some indoor units.
4. Because the maximum transmission length varies according to actual installation conditions and diameter of wiring used, please confirm by a dedicated simulator.
5. Installation box is necessary for adaptor BRP114A61. Please refer to option list 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	• Additional 64 groups (10 outdoor units) is possible.
1-2			Software	Web software	DCS004A51	• **VRV** system that is connected to intelligent Touch Controller can be operated from the user's PC via a web page.
1-3	Electrical box with earth terminal (4 blocks)				KJB411A	• Wall embedded switch box.
2	intelligent Touch Manager	Basic	Hardware	intelligent Touch Manager	DCM601A51	• Air-conditioning management system that can be controlled by touch screen.
2-1			Hardware	iTM plus adaptor	DCM601A52	• Additional 64 groups (10 outdoor units) is possible. Max. 7 iTM plus adaptors can be connected to intelligent Touch Manager.
2-2		Option	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.
2-3				iTM energy navigator	DCM008A51	• Building energy consumption is visualised. Wasted air-conditioning energy can be found out.
2-4				BACnet® client	DCM009A51	• BACnet® equipment can be managed by intelligent Touch Manager.
2-5				HTTP Interface	DCM007A51	• Interface for intelligent Touch Manager by HTTP
2-6	Smartphone/ Tablet control		Office	**Reiri** for Office	DCPF01	• **VRV** smart controller (website or mobile app via smart phone or tablet) for small to medium scale building
2-7				**Reiri** for Office (Touchscreen Controller)	DCPF04	• **VRV** smart controller with touch panel (website or mobile app via smartphone or tablet) for small to medium scale building
2-8				**Reiri** for Office (Controller Extension)	DCPF05	• **VRV** smart controller for large scale building
2-9				**Reiri** for Office (Multisite Extension)	DCPF10	• Control all **VRV** units via **Reiri** for Office on multisite
2-10			Home	**Reiri** for Office	DCPH01	• **VRV** smart home automation and smart control solution
2-11				**Reiri** for Home (Lite Version)	DCPH02	• **VRV** smart centralised controller
2-12			Hotel	**Reiri** for Hotel	DCPL01	• Multiple hotel room air conditioner interlocking with occupancy signal, window open/close signal and check in/out signal
2-13				**Reiri** for Resort	DCPR01	• Individual villa air conditioner interlocking with occupancy signal, window open/close signal and check in/out signal
2-14	Di unit				DEC101A51	• 8 pairs based on a pair of ON/OFF input and abnormality input.
2-15	Dio unit				DEC102A51	• 4 pairs based on a pair of ON/OFF input and abnormality input/output.
3	Communication interface			Interface for use in BACnet® *¹	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				Interface for use in LONWORKS® *²	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. *⁴
5-1				Mounting plate	BKS26A	• When installing DTA116A51 into outdoor units of 14 HP (**VRV** H/A) 28 HP (**VRV** R) or larger.
6	Contact/ analogue signal			Unification adaptor for computerised control	★DCS302A52	• Interface between the central monitoring board and central control units.

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