



PCVMT1906aprv



Warning

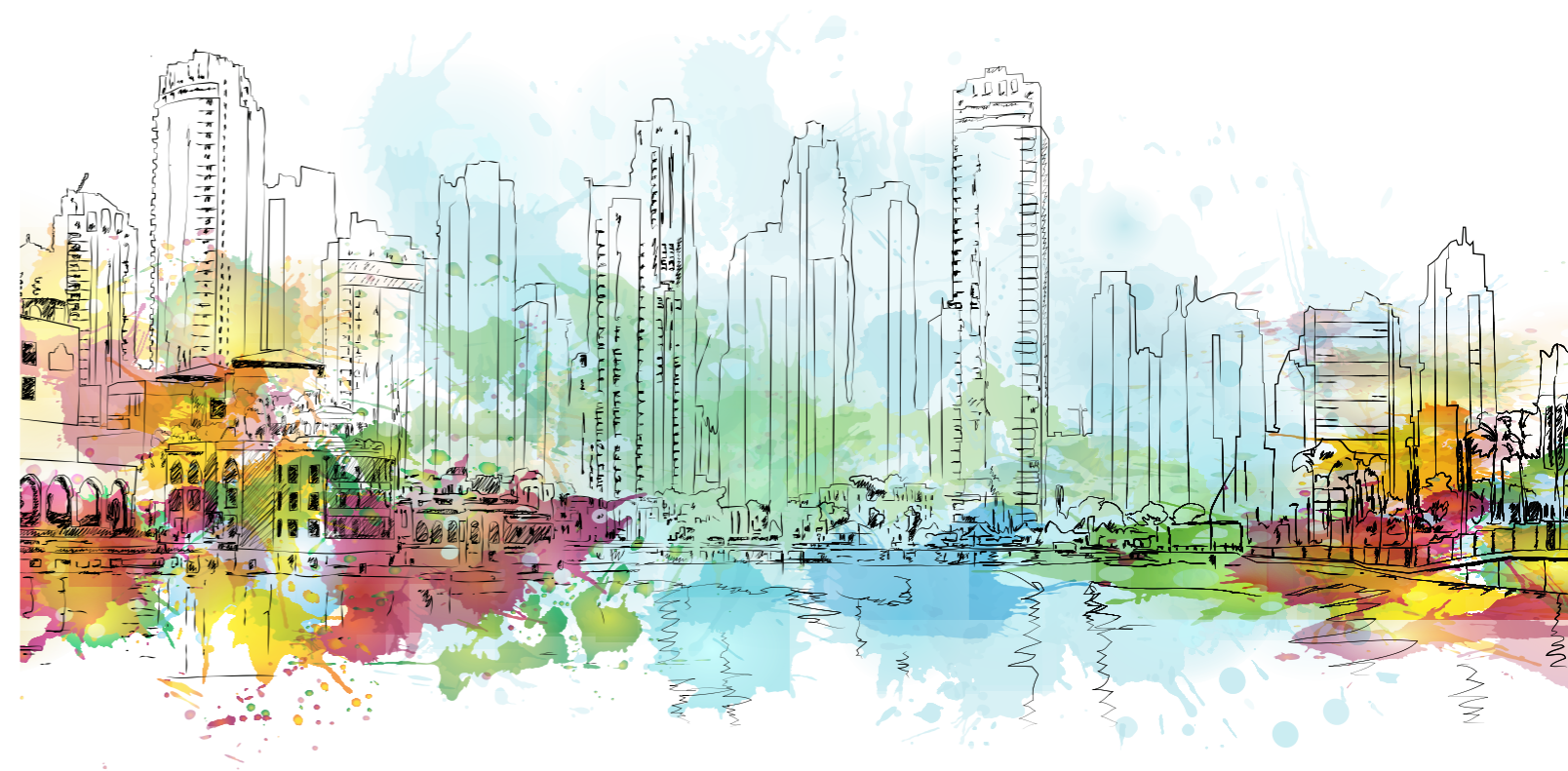


- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

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

Cautions on product corrosion

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



VRV is a trademark of Daikin Industries, Ltd.

VRV 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."

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R-410A

Heat Pump / Heat Recovery 50 Hz

Exceeding Boundaries with

Innovative Energy Savings

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** and **R** series. By combining the technologies of **VRV**, **VRT** and **VAV**, we have attained both energy savings and comfortable air conditioning.

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

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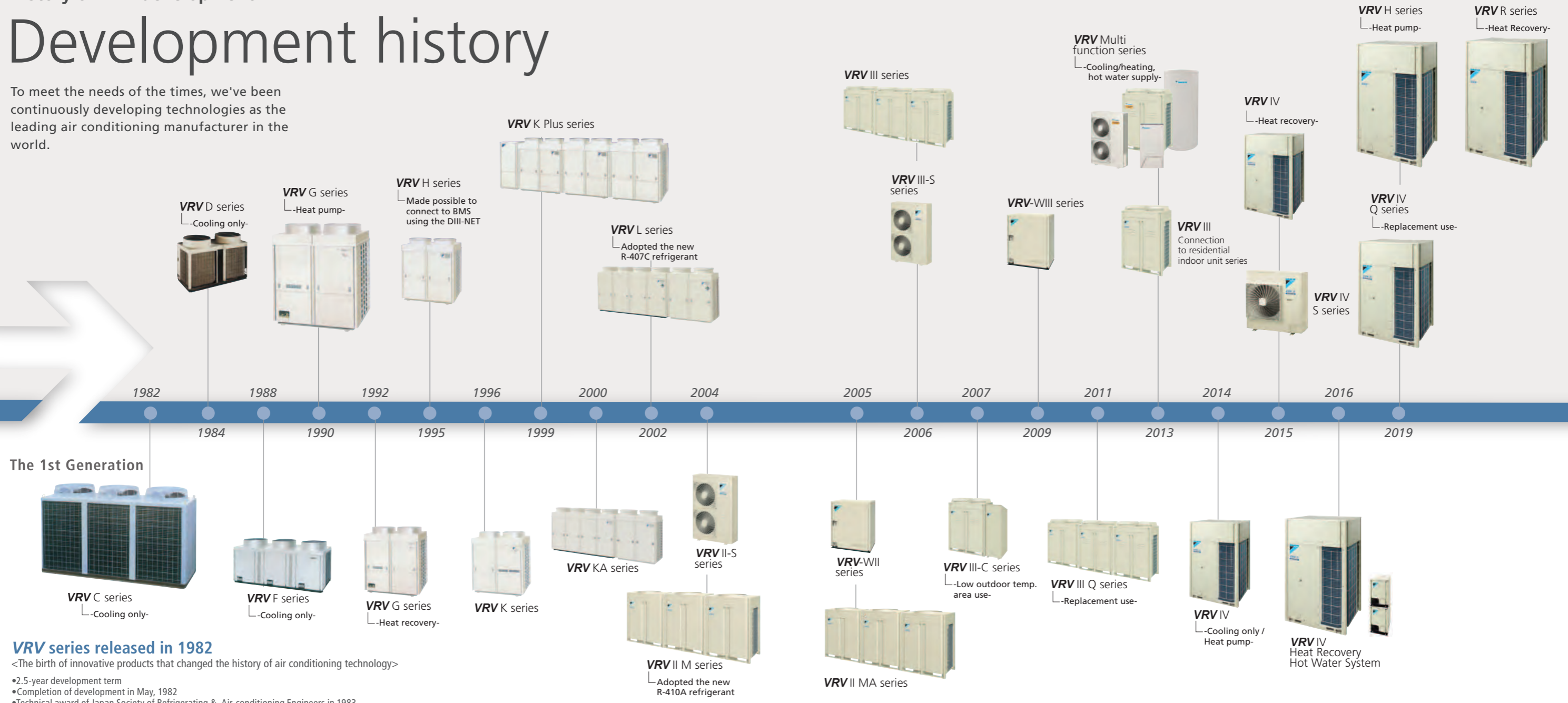
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* **VRV** is a trademark of Daikin Industries, Ltd.

History of VRV development

Development history

To meet the needs of the times, we've been continuously developing technologies as the leading air conditioning manufacturer in the world.



The 1st Generation

VRV series released in 1982

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

- 2.5-year development term
- Completion of development in May, 1982
- Technical award of Japan Society of Refrigerating & Air-conditioning Engineers in 1983

Expansion of the country of sale

Sales is undergoing in more than 70 countries

Europe

- Italy
- France
- Germany
- Spain
- Russia
- UK
- Austria
- Belgium
- Bulgaria
- Croatia
- Cyprus
- Czech
- Lithuania
- Macedonia
- Netherlands
- Poland
- Portugal
- Finland
- Greece
- Hungary
- Ireland
- Romania
- Serbia
- Slovakia
- Sweden
- Switzerland
- Turkey
- Ukraine

Middle East

- UAE
- Saudi Arabia
- Bahrain
- Jordan
- Oman
- Qatar

Africa

- South Africa
- Algeria
- Burkina Faso
- Egypt
- Ivory Coast
- Senegal
- Sudan

Asia

- India
- Vietnam
- Thailand
- Indonesia
- Malaysia
- Singapore
- Philippine
- Cambodia
- Myanmar
- Maldives
- Nepal
- Seychelles
- Pakistan
- Sri Lanka

Asia

- Japan
- China
- Korea
- Taiwan

Oceania

- Australia
- Fiji
- New Caledonia
- New Zealand
- Tahiti

North America

- USA
- Mexico
- Canada
- Puerto Rico

South America

- Brazil
- Argentina
- Chile
- Colombia
- Panama
- Peru



* VRV is a trademark of Daikin Industries, Ltd.

VRV User Benefits

For property OWNERS

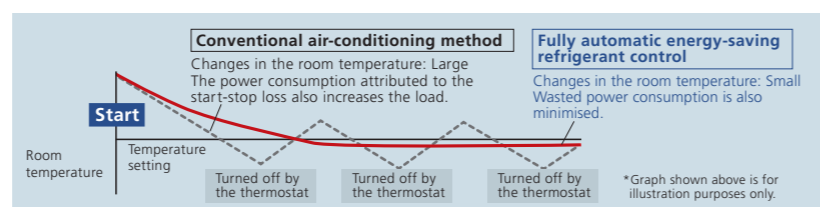
First launched in 1982, the Daikin VRV system has been providing comfort and reliability to building owners and their tenants for over 35 years. Leveraging the latest in energy-saving technology, Daikin has further improved energy savings while reducing space requirements. This added value is one reason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

Energy saving & comfortable environment

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

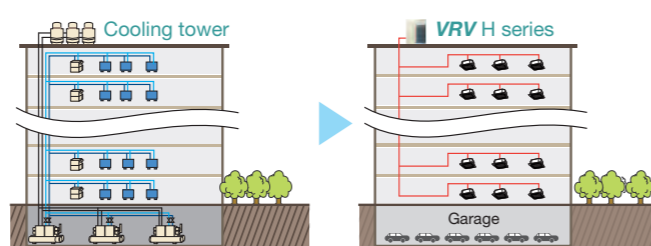


While optimally operating at low load, it maintains a comfortable indoor environment.



Efficient space utilisation

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



High reliability

Double backup operation

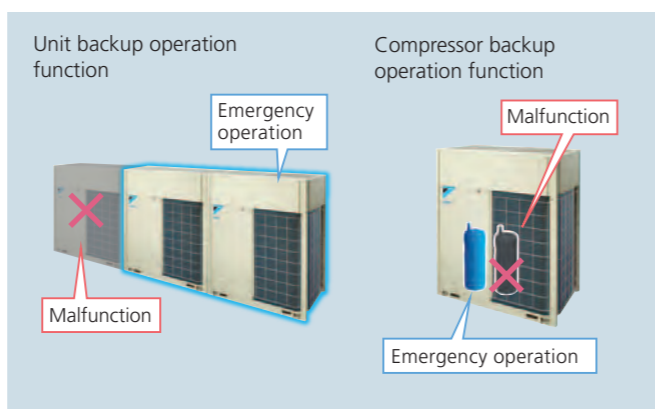
Daikin VRV outdoor unit goes beyond just highly reliable compressors with a backup system that ensures continued operation.

Unit backup

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

Compressor backup

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



For USERS

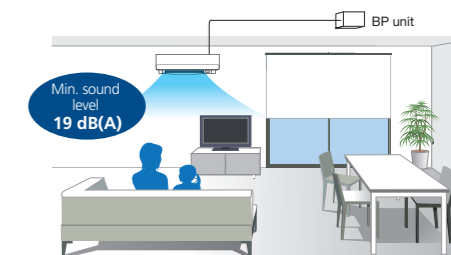
Comfortable environment

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



Residential indoor units

Because indoor units developed for residential use can be connected, it is possible to realise quiet operation. You can include indoor units that operate at min. 19 dB(A), and to reduce the noise of refrigerant passing through the piping by remotely installing an BP unit.



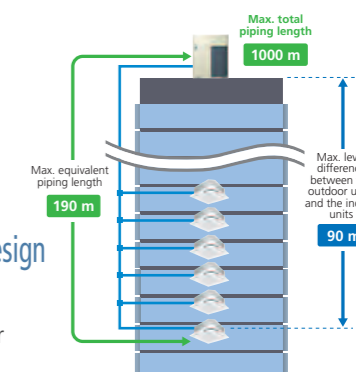
For CONSULTANT and DESIGN OFFICES

Varied lineup of models

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

Long piping provides more flexible system design

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

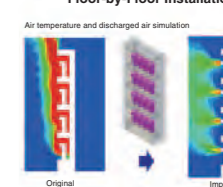


Compatible with engineering software

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



Floor-by-Floor Installation



Energy efficient

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

For INSTALLERS

Automatic refrigerant charge function

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.

Airflow rate auto adjustment function

The automatic adjustment function automatically adjusts within $\pm 10\%$ of the airflow rate for H tap by determining local duct resistance.

Lightweight and compact large-capacity single units

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

Simple piping, easy wiring

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



Wide variety of series models to supply total air solutions

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

VRV H SERIES

P.11

Heat Pump



New

RXYQ-A

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

Achieves space saving & excellent performance to meet the needs in various buildings

The new **VRV H** series achieves high efficiency in a design that is more compact and lightweight. It also offers comfort, easy installation, and high reliability to meet the needs in various buildings.

Lineup

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

*The 6 HP single unit and combinations of the 6 HP unit with multiple units are unavailable in the Argentine market.

VRV IV S SERIES

P.49

Heat Pump



RXYMQ-A

4-6 HP 1-phase, 220-230 V/220 V, 50/60 Hz

8-9 HP 3-phase, 380-415 V, 50 Hz

Especially designed for residential houses, small offices and shops

VRV IV S series aims to provide sufficient capacity, along with the compact size required by residential houses, small offices and shops. Outdoor units are designed to be slim and space saving, and offer 5 models to suit your needs.

Lineup

HP	4	5	6	8	9
Heat Pump	●	●	●	●	●

VRV R SERIES

P.29

Heat Recovery



New

REYQ-TA

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

Maximum comfort via simultaneous cooling and heating

The new **VRV R** series enables simultaneous operation of cooling and heating within a single refrigerant piping circuit by controlling the BS unit. This series also substantially improves energy efficiency by recycling exhaust heat.

Lineup

HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
Standard Type	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

VRV IV Q SERIES

P.59

Heat Pump



New

RQYQ-T

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

For quick & high quality replacement use

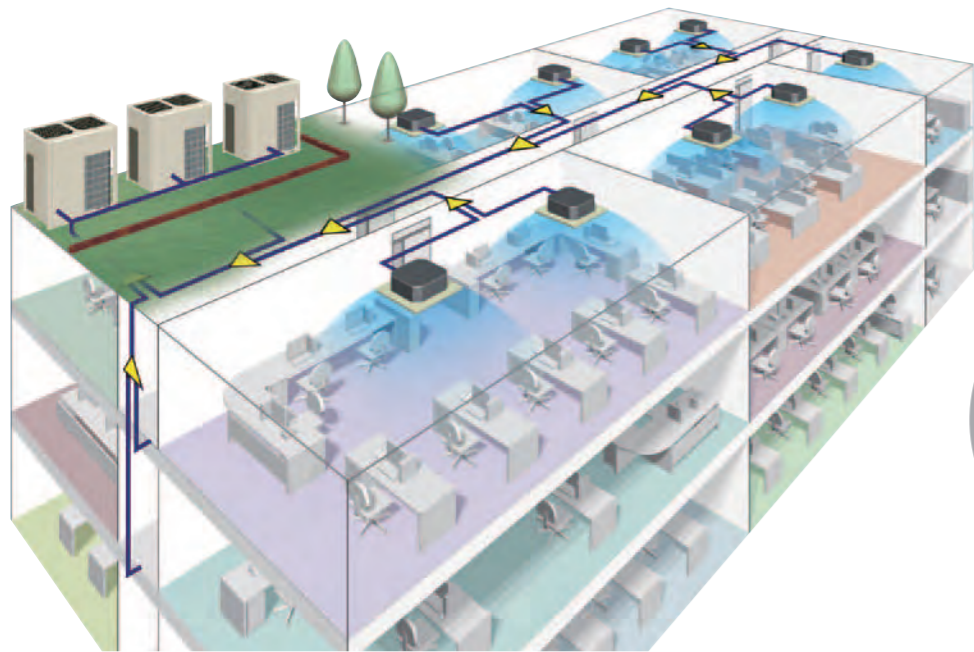
VRV IV Q series, a replacement **VRV** unit, can be installed using existing refrigerant piping, so renovation of the air conditioning system can be carried out quickly and smoothly. This minimises inconveniences to activities and users in the building.

Lineup

HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	
Standard Type	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Space Saving Type						●	●					●	●	●	●	●	●	●	●	●	●	●

Saves Space and Delivers Excellent Performance

VRV H SERIES



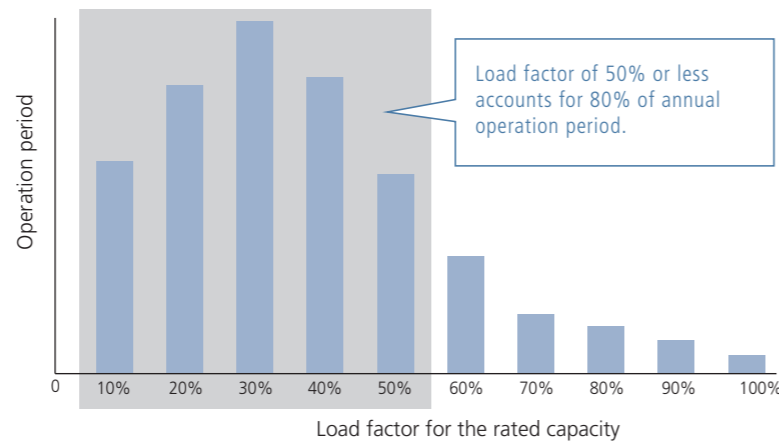
RXYQ-A **New**

Heat Pump
6 HP - 60 HP
(16 kW) (168 kW)

Greater energy savings during low-load operation

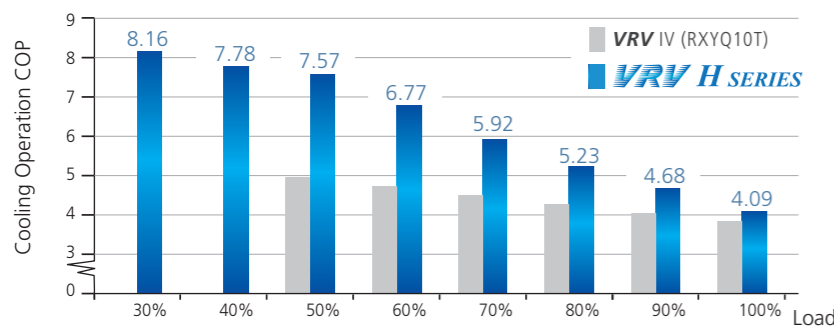
The key to innovative energy savings is to increase efficiency during low-load operation.

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.



•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)

Higher Coefficient of Performance (COP) COP for 10 HP



*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)

Advanced technologies for greater energy savings

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.

VRV+VRT+VAV

Software technology

VRT Smart Control

(Fully Automatic Energy-saving Refrigerant Control)

Optimally supply only for the needed capacity of indoor units

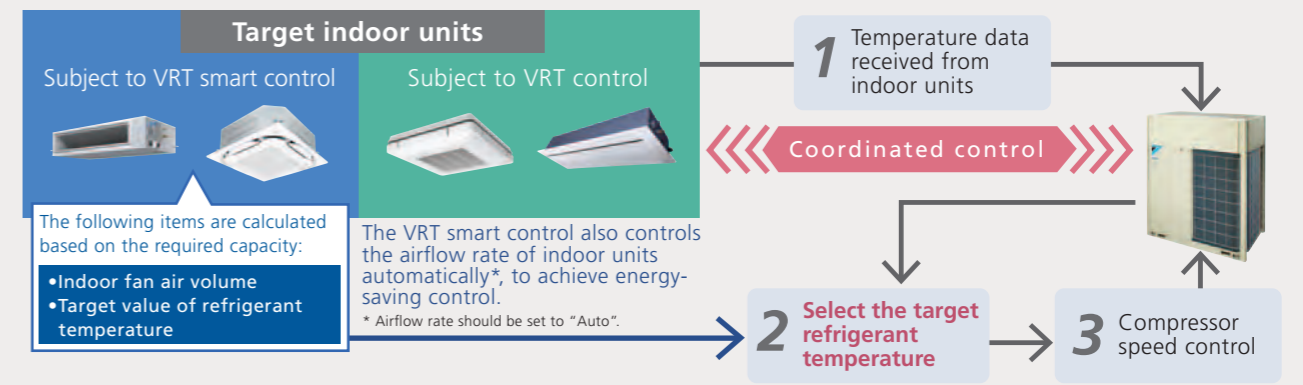
Daikin developed VRT smart control by combining air volume control (VAV: Variable Air Volume) for indoor units with conventional VRT control, which optimises compressor speed by calculating the required load for the entire system and optimal target refrigerant temperature based on data sent from each 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 (Spanish)

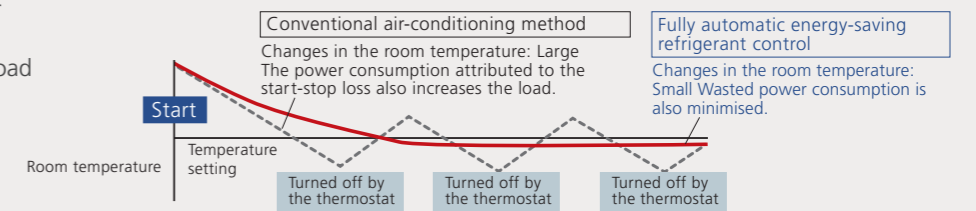
Overview of the control (system control flow)

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



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

Changes in the room temperature during low-load operation*



*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

Effectiveness can be demonstrated for VRT Smart Control and VRT Control 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:

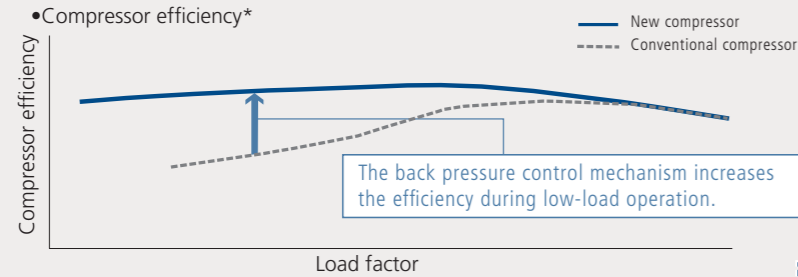
- 1) A load imbalance occurs because an indoor unit in the same system is installed near the perimeter of the room or in the vicinity of a room entrance.
- 2) Different operating hours for indoor units.
 - Time of Use
 - 1. Energy efficiency decreases when the set temperature of a specified indoor unit 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.

New Scroll Compressor*

Hardware technology

Refrigerant leakage is minimised during low-load operation.

Operation loss due to refrigerant leakage is reduced by the proprietary back pressure control mechanism to ensure stable low-load operation.



*Graph shown above is for illustration purposes only.

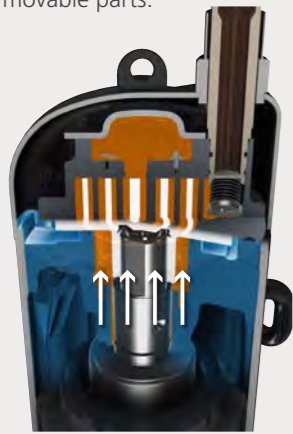


New Scroll Compressor movie (Spanish)

Back pressure control mechanism

Conventional mechanism

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



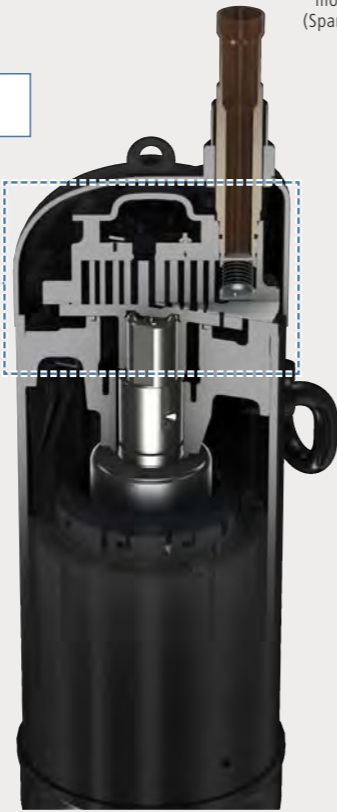
The force pressing the movable scroll decreases during low-load operation.

New intermediate pressure mechanism **New**

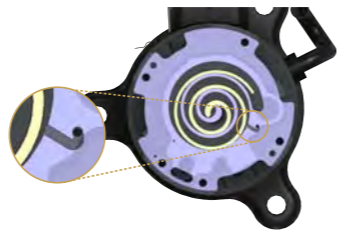
The force pressing the movable scroll is optimised according to operating conditions. The behavior of the movable scroll has been stabilised to increase efficiency during low-load operation.



The intermediate pressure keeps pressing the movable scroll during low-load operation.



Intermediate pressure adjustment port
The intermediate pressure (back pressure) optimises the force pressing the movable 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.

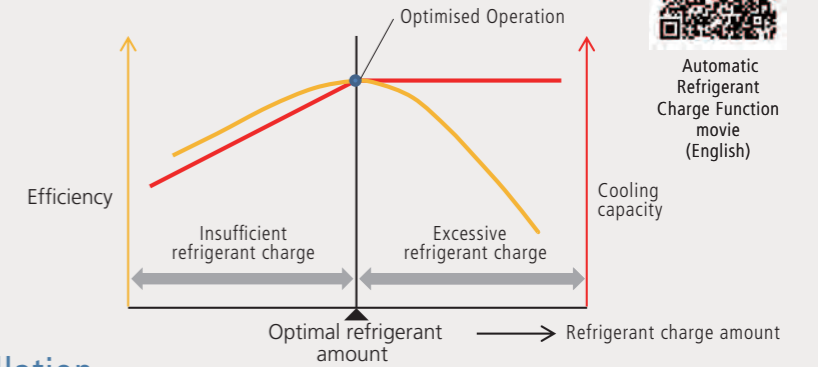
* Operation calculation conditions: VRV H series 14 HP
Location: Singapore
Operation time: 08:00-18:00 on weekdays.

Automatic refrigerant charge function

Contribute to optimised operation efficiency, higher quality and easier installation

Optimised operation efficiency

The automatic refrigerant charge function automatically determines the optimal amount of refrigerant to be charged. This function prevents a capacity shortage or energy loss due to excessive or insufficient refrigerant.



Higher quality and easier installation

The automatic refrigerant charge function automates the charging of the proper refrigerant amount and the closing of shut-off valves by simply pressing a switch after pre-charging.

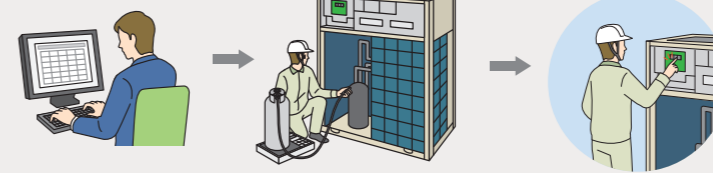
Simplified installation eliminates excessive and insufficient refrigerant charge amounts due to calculation mistakes, and this has led to higher installation quality.

VRV IV

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

VRV H SERIES

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



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

- Automatic completion by proper refrigerant amount
- Monitoring refrigerant charging is unnecessary
- No recalculation of charge amounts due to minor design changes locally

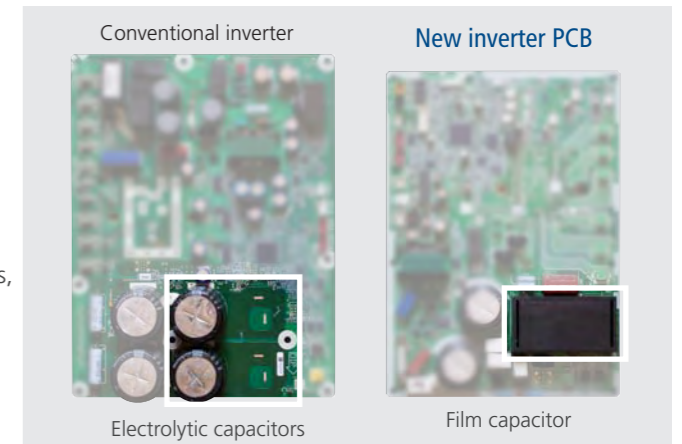
* There are conditions in the range of ambient temperature in which the automatic refrigerant charge can be used. Refer to the installation manual for details.
* Pre-charge amount changes according to conditions and pre-charging is unnecessary when necessary refrigerant amount is 4 kg and under. Please 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 PCB

The control functions of inverter technology have been integrated on PCBs. 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 PCB improved by changing the electrolytic capacitors for the compressor to film capacitors.



Excellent Operational Performance

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.

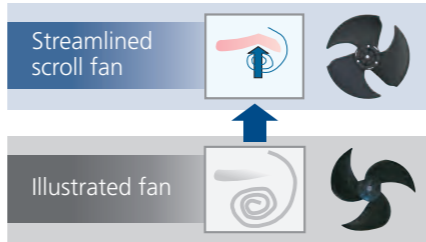
Streamlined air grille

It promotes the discharge of swirling airflow, further reducing pressure loss.



Streamlined scroll fan

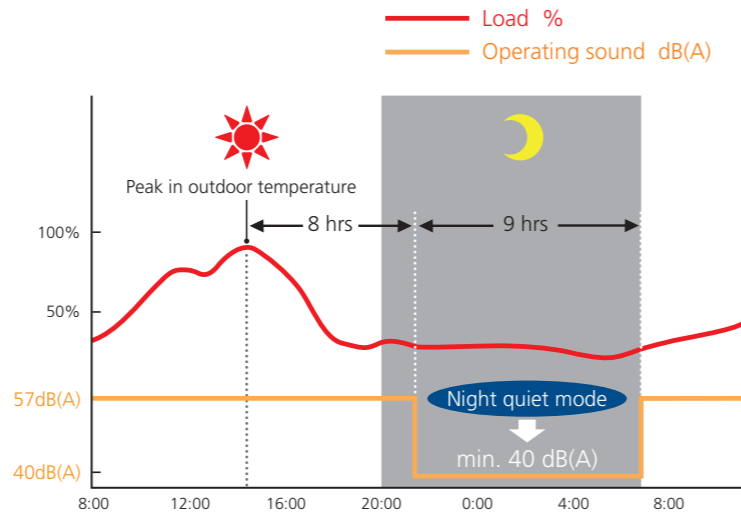
The curvature of each fan blade edge reduces both vibration and pressure loss.



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.



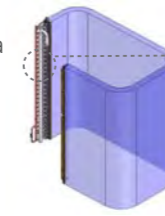
Note:

- 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 $\Phi 7$.



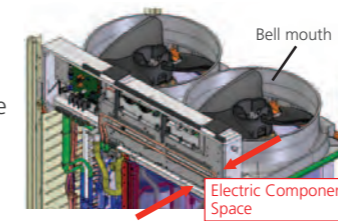
20HP
3-row small pipe design increases heat transfer efficiency.



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.



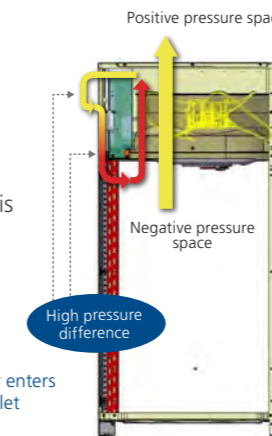
Easy maintenance

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



Sufficient cooling for electrical components

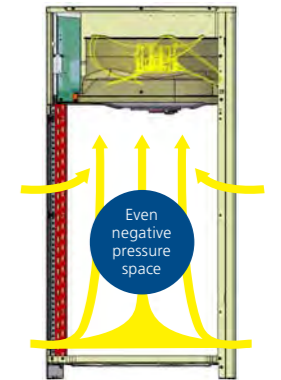
The VRV H series is designed with the electrical box strategically positioned between a region of positive and negative pressure. This design allows large airflow from negative pressure to positive pressure due to the high pressure difference.



High pressure since air enters near the fan blower inlet

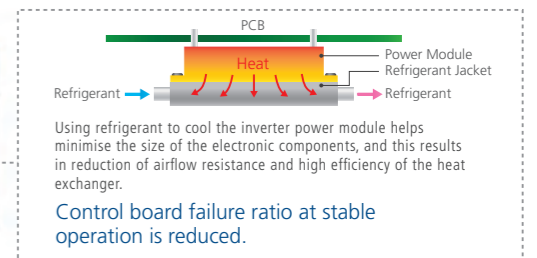
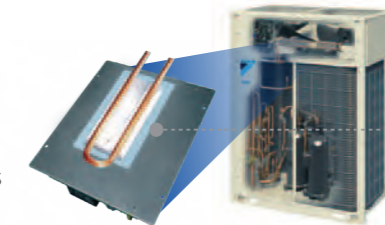
Eliminate suction resistance issue

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



High reliability at high ambient temperatures

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



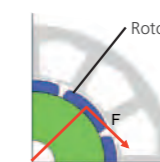
Outer Rotor DC Motor (ODM)

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

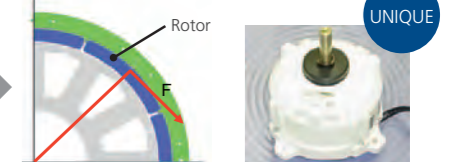
Advantages of ODM

- 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

Conventional Motor (Inner Type)



ODM (Outer Type)



HIGH TORQUE with low energy → MORE efficient

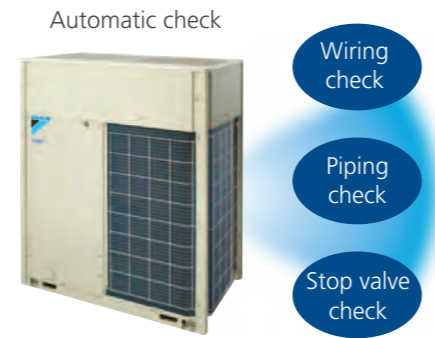
Reliable and Stable System

More accurate test operation and stable system

Efficient automatic test operation

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

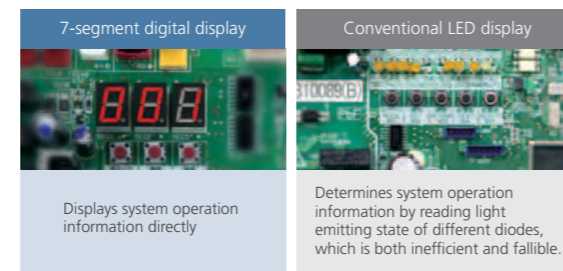
- Automatically checks the wiring between outdoor units and indoor units to confirm whether there is defective wiring.
- Confirms piping length to optimise operation.
- Automatically checks whether the stop valve in each outdoor unit is functioning normally to ensure the smooth operation of air conditioning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



Simplified commissioning and after-sales service

Function of information display by luminous digital tube

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

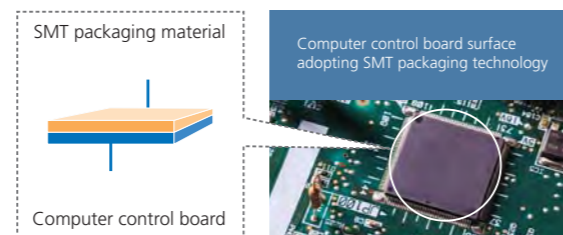


Advanced control main PCB

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: Surface mounted technology

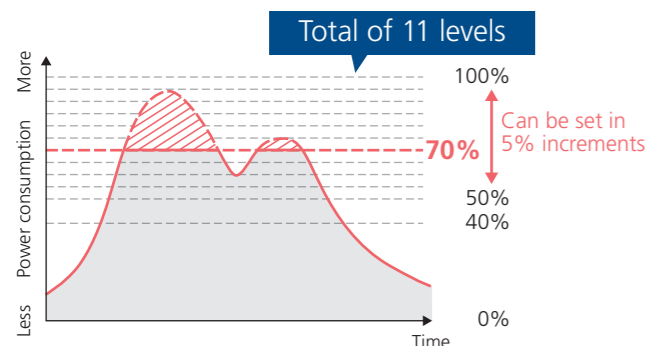


I-demand function

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.

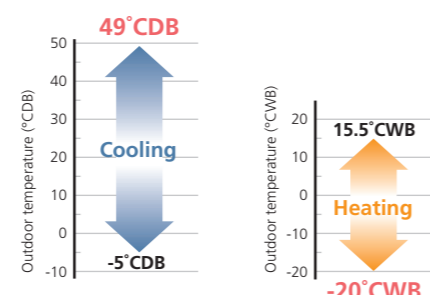
*Set on the PCB of the outdoor unit.

When set to 70% demand



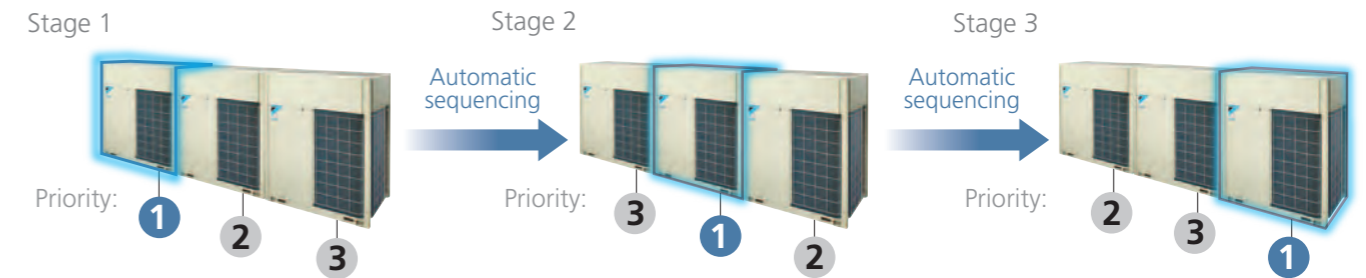
Wide operation temperature range up to 49°C

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



Automatic sequencing operation

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



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.

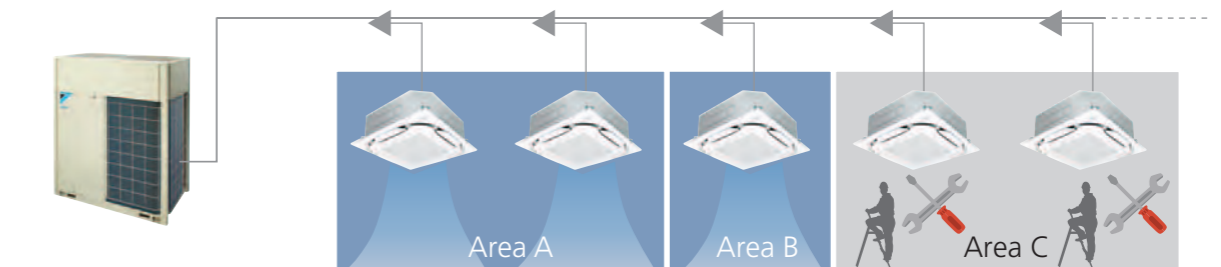
Compressor backup operation function

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 PCB of the outdoor unit.

Ease of Maintenance

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



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

Outdoor Unit Lineup

VRV H Series Outdoor Units New

Heat Pump

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

- VRV H series outdoor unit offers a high capacity of up to 60 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		6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	
VRV H SERIES	High-COP Type				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•									
	Standard Type	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

* The 6 HP single unit and combinations of the 6 HP unit with multiple units are unavailable in the Argentine market.

High-COP Type

Double Outdoor Units 12, 14, 16 HP



RXYQ12AHYMV*
RXYQ14AHYMV*
RXYQ16AHYMV

Triple Outdoor Units

18, 20, 22, 24, 26, 28, 30, 32, 34, 36 HP



RXYQ18AHYMV* RXYQ28AHYMV
RXYQ20AHYMV* RXYQ30AHYMV
RXYQ22AHYMV* RXYQ32AHYMV
RXYQ24AHYMV RXYQ34AHYMV
RXYQ26AHYMV RXYQ36AHYMV

38, 40 HP



RXYQ38AHYMV
RXYQ40AHYMV

42, 44 HP



RXYQ42AHYMV
RXYQ44AHYMV

Standard Type

Single Outdoor Units

6, 8, 10, 12 HP



RXYQ6AYM*
RXYQ8AYM
RXYQ10AYM
RXYQ12AYM

14, 16, 18, 20 HP



RXYQ14AYM
RXYQ16AYM
RXYQ18AYM
RXYQ20AYM

Double Outdoor Units

22, 24 HP



RXYQ22AYMV
RXYQ24AYMV

26, 28, 30 HP



RXYQ26AYMV
RXYQ28AYMV
RXYQ30AYMV

32, 34, 36, 38, 40 HP



RXYQ32AYMV
RXYQ34AYMV
RXYQ36AYMV
RXYQ38AYMV
RXYQ40AYMV

Triple Outdoor Units

42, 44 HP



RXYQ42AYMV
RXYQ44AYMV

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



RXYQ46AYMV RXYQ54AYMV
RXYQ48AYMV RXYQ56AYMV
RXYQ50AYMV RXYQ58AYMV
RXYQ52AYMV RXYQ60AYMV

Outdoor Unit Combinations

For connection of only VRV indoor units

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	32.0	300	RXYQ12AH	RXYQ6A x 2	BHPF22P100	150 to 390 (480)	19 (24)
14	38.4	350	RXYQ14AH	RXYQ6A + RXYQ8A		175 to 455 (560)	22 (28)
16	44.8	400	RXYQ16AH	RXYQ8A x 2		200 to 520 (640)	26 (32)
18	50.4	450	RXYQ18AH	RXYQ6A x 3	BHPF22P151	225 to 585 (585)	29 (29)
20	55.9	500	RXYQ20AH	RXYQ6A x 2 + RXYQ8A		250 to 650 (650)	32 (32)
22	60.8	550	RXYQ22AH	RXYQ6A + RXYQ8A x 2		275 to 715 (715)	35 (35)
24	67.2	600	RXYQ24AH	RXYQ8A x 3		300 to 780 (780)	39 (39)
26	72.8	650	RXYQ26AH	RXYQ8A x 2 + RXYQ10A		325 to 845 (845)	42 (42)
28	78.3	700	RXYQ28AH	RXYQ8A x 2 + RXYQ12A	BHPF22P151	350 to 910 (910)	45 (45)
30	83.9	750	RXYQ30AH	RXYQ8A + RXYQ10A + RXYQ12A		375 to 975 (975)	48 (48)
32	89.4	800	RXYQ32AH	RXYQ8A + RXYQ12A x 2		400 to 1,040 (1,040)	52 (52)
34	95.0	850	RXYQ34AH	RXYQ10A + RXYQ12A x 2		425 to 1,105 (1,105)	55 (55)
36	101	900	RXYQ36AH	RXYQ12A x 3		450 to 1,170 (1,170)	58 (58)
38	107	950	RXYQ38AH	RXYQ12A x 2 + RXYQ14A		475 to 1,235 (1,235)	61 (61)
40	112	1,000	RXYQ40AH	RXYQ12A x 2 + RXYQ16A		500 to 1,300 (1,300)	64 (64)
42	118	1,050	RXYQ42AH	RXYQ10A + RXYQ16A x 2		525 to 1,365 (1,365)	
44	124	1,100	RXYQ44AH	RXYQ12A + RXYQ16A x 2		550 to 1,430 (1,430)	

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	16.0	150	RXYQ6A	RXYQ6A	-	75 to 195 (300)	9 (15)
8	22.4	200	RXYQ8A	RXYQ8A	-	100 to 260 (400)	13 (20)
10	28.0	250	RXYQ10A	RXYQ10A	-	125 to 325 (500)	16 (25)
12	33.5	300	RXYQ12A	RXYQ12A	-	150 to 390 (600)	19 (30)
14	40.0	350	RXYQ14A	RXYQ14A	-	175 to 455 (700)	22 (35)
16	45.0	400	RXYQ16A	RXYQ16A	-	200 to 520 (800)	26 (40)
18	50.0	450	RXYQ18A	RXYQ18A	-	225 to 585 (900)	29 (45)
20	56.0	500	RXYQ20A	RXYQ20A	-	250 to 650 (1,000)	32 (50)
22	61.5	550	RXYQ22A	RXYQ10A + RXYQ12A	BHPF22P100	275 to 715 (880)	35 (44)
24	67.0	600	RXYQ24A	RXYQ12A x 2		300 to 780 (960)	39 (48)
26	73.5	650	RXYQ26A	RXYQ12A + RXYQ14A		325 to 845 (1,040)	42 (52)
28	78.5	700	RXYQ28A	RXYQ12A + RXYQ16A		350 to 910 (1,120)	45 (56)
30	83.5	750	RXYQ30A	RXYQ12A + RXYQ18A		375 to 975 (1,200)	48 (60)
32	90.0	800	RXYQ32A	RXYQ16A x 2		400 to 1,040 (1,280)	52 (64)
34	95.0	850	RXYQ34A	RXYQ16A + RXYQ18A		425 to 1,105 (1,360)	55 (64)
36	101	900	RXYQ36A	RXYQ16A + RXYQ20A		450 to 1,170 (1,440)	58 (64)
38	106	950	RXYQ38A	RXYQ18A + RXYQ20A		475 to 1,235 (1,520)	61 (64)
40	112	1,000	RXYQ40A	RXYQ20A x 2		500 to 1,300 (1,600)	BHPF22P151
42	117	1,050	RXYQ42A	RXYQ12A x 2 + RXYQ18A	525 to 1,365 (1,365)		
44	123	1,100	RXYQ44A	RXYQ12A x 2 + RXYQ20A	550 to 1,430 (1,430)		
46	130	1,150	RXYQ46A	RXYQ14A + RXYQ16A x 2	575 to 1,495 (1,495)		
48	135	1,200	RXYQ48A	RXYQ16A x 3	600 to 1,560 (1,560)		
50	140	1,250	RXYQ50A	RXYQ16A x 2 + RXYQ18A	625 to 1,625 (1,625)		
52	145	1,300	RXYQ52A	RXYQ16A + RXYQ18A x 2	650 to 1,690 (1,690)		
54	150	1,350	RXYQ54A	RXYQ18A x 3	675 to 1,755 (1,755)		
56	156	1,400	RXYQ56A	RXYQ18A x 2 + RXYQ20A	700 to 1,820 (1,820)		
58	162	1,450	RXYQ58A	RXYQ18A + RXYQ20A x 2	725 to 1,885 (1,885)		
60	168	1,500	RXYQ60A	RXYQ20A x 3	750 to 1,950 (1,950)		

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 17 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			Maximum number of connectable indoor units
				Combination (%)			
				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
RXYQ18AYM	50.0	18	450	360	450	585	29
RXYQ20AYM	56.0	20	500	400	500	650	32

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



*2. Total capacity index of connectable indoor units must be 80%–130% of the capacity index of the outdoor unit.



VRV H Series Outdoor Units

High-COP Type

RXYQ-A

Heat Pump

													
Model		RXYQ12AHYMV	RXYQ14AHYMV	RXYQ16AHYMV	RXYQ18AHYMV	RXYQ20AHYMV	RXYQ22AHYMV	RXYQ24AHYMV	RXYQ26AHYMV	RXYQ28AHYMV	RXYQ30AHYMV		
Combination units		RXYQ6AYM	RXYQ6AYM	RXYQ8AYM	RXYQ6AYM	RXYQ6AYM	RXYQ6AYM	RXYQ8AYM	RXYQ8AYM	RXYQ8AYM	RXYQ8AYM		
		RXYQ6AYM	RXYQ8AYM	RXYQ8AYM	RXYQ6AYM	RXYQ6AYM	RXYQ8AYM	RXYQ8AYM	RXYQ8AYM	RXYQ8AYM	RXYQ10AYM		
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	229,000	248,000	267,000	286,000	
		kW	32.0	38.4	44.8	48.0	54.4	60.8	67.2	72.8	78.3	83.9	
Heating capacity		Btu/h	123,000	147,000	171,000	184,000	208,000	232,000	256,000	278,000	299,000	321,000	
		kW	36.0	43.0	50.0	54.0	61.0	68.0	75.0	81.5	87.5	94.0	
Power consumption		Cooling kW	6.76	8.55	10.3	10.1	11.9	13.7	15.5	17.2	19.0	20.7	
		Heating kW	7.46	9.40	11.3	11.2	13.1	15.1	17.0	18.6	20.3	21.8	
Capacity control		%		12-100	11-100	10-100	8-100	7-100	5-100				
Casing colour		Ivory white (5Y7.5/1)					Ivory white (5Y7.5/1)						
Compressor		Type: Hermetically sealed scroll type					Type: Hermetically sealed scroll type						
Motor output		kW		(2.4x1)+(2.4x1)	(2.4x1)+(3.4x1)	(3.4x1)+(3.4x1)	(2.4x1)+(2.4x1)+(2.4x1)	(2.4x1)+(2.4x1)+(3.4x1)	(2.4x1)+(3.4x1)+(3.4x1)	(3.4x1)+(3.4x1)+(3.4x1)	(3.4x1)+(3.4x1)+(4.5x1)	(3.4x1)+(3.4x1)+(5.5x1)	
Airflow rate		m³/min		119+119	119+178	178+178	119+119+119	119+119+178	119+178+178	178+178+178	178+178+191	178+178+191	
Dimensions (HxWxD)		mm		(1,657x930x765)+(1,657x930x765)			(1,657x930x765)+(1,657x930x765)+(1,657x930x765)			(1,657x930x765)+(1,657x930x765)+(1,657x930x765)			
Machine weight		kg		185+185			185+185+185			185+185+185		185+185+200	185+200+200
Sound level		dB(A)		59			61			61		62	
Operation range		Cooling °CDB		-5 to 49			-5 to 49			-5 to 49			
		Heating °CWB		-20 to 15.5			-20 to 15.5			-20 to 15.5			
Refrigerant		Type		R-410A			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	7.0+7.0+7.0	7.0+7.0+7.4	7.0+7.0+7.6	7.0+7.4+7.6
Piping connections		Liquid mm		φ12.7 (Brazing)			φ15.9 (Brazing)			φ15.9 (Brazing)			
		Gas mm		φ28.6 (Brazing)			φ28.6 (Brazing)			φ34.9 (Brazing)			

									
Model		RXYQ32AHYMV	RXYQ34AHYMV	RXYQ36AHYMV	RXYQ38AHYMV	RXYQ40AHYMV	RXYQ42AHYMV	RXYQ44AHYMV	
Combination units		RXYQ8AYM	RXYQ10AYM	RXYQ12AYM	RXYQ12AYM	RXYQ12AYM	RXYQ10AYM	RXYQ12AYM	
		RXYQ12AYM	RXYQ12AYM	RXYQ12AYM	RXYQ12AYM	RXYQ14AYM	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	305,000	324,000	345,000	365,000	382,000	403,000	423,000
		kW	89.4	95.0	101	107	112	118	124
Heating capacity		Btu/h	341,000	365,000	386,000	409,000	427,000	450,000	471,000
		kW	100	107	113	120	125	132	138
Power consumption		Cooling kW	22.6	24.2	26.1	28.1	30.3	32.6	34.5
		Heating kW	23.5	25.1	26.7	28.8	30.4	32.4	34.1
Capacity control		%		5-100	4-100	3-100			
Casing colour		Ivory white (5Y7.5/1)					Ivory white (5Y7.5/1)		
Compressor		Type: Hermetically sealed scroll type					Type: Hermetically sealed scroll type		
Motor output		kW		(3.4x1)+(5.5x1)+(5.5x1)	(4.5x1)+(5.5x1)+(5.5x1)	(5.5x1)+(5.5x1)+(5.5x1)	(5.5x1)+(5.5x1)+(2.9x1)+(3.3x1)	(5.5x1)+(5.5x1)+(3.6x1)+(3.7x1)	
Airflow rate		m³/min		178+191+191	191+191+191	191+191+257	178+257+257	191+257+257	
Dimensions (HxWxD)		mm		(1,657x930x765)+(1,657x930x765)+(1,657x930x765)			(1,657x930x765)+(1,657x1,240x765)+(1,657x1,240x765)		
Machine weight		kg		185+200+200	200+200+200	200+200+285	200+285+285		
Sound level		dB(A)		63			64		
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+7.6+7.6	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
Piping connections		Liquid mm		φ19.1 (Brazing)			φ19.1 (Brazing)		
		Gas mm		φ34.9 (Brazing)			φ41.3 (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, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.

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

During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode. When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

VRV H Series Outdoor Units
Standard Type

RXYQ-A

Heat Pump

Model		RXYQ6AYM	RXYQ8AYM	RXYQ10AYM	RXYQ12AYM	RXYQ14AYM	RXYQ16AYM	RXYQ18AYM	RXYQ20AYM	RXYQ22AYMV	RXYQ24AYMV	RXYQ26AYMV	RXYQ28AYMV	RXYQ30AYMV	RXYQ32AYMV
Combination units		—	—	—	—	—	—	—	—	RXYQ10AYM	RXYQ12AYM	RXYQ12AYM	RXYQ12AYM	RXYQ12AYM	RXYQ16AYM
		—	—	—	—	—	—	—	—	RXYQ12AYM	RXYQ12AYM	RXYQ14AYM	RXYQ16AYM	RXYQ18AYM	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	54,600	76,400	95,500	114,000	136,000	154,000	171,000	191,000	210,000	229,000	251,000	268,000	285,000	307,000
	kW	16.0	22.4	28.0	33.5	40.0	45.0	50.0	56.0	61.5	67.0	73.5	78.5	83.5	90.0
Heating capacity	Btu/h	61,400	85,300	107,000	128,000	154,000	171,000	191,000	215,000	235,000	256,000	281,000	299,000	319,000	341,000
	kW	18.0	25.0	31.5	37.5	45.0	50.0	56.0	63.0	69.0	75.0	82.5	87.5	93.5	100
Power consumption	Cooling kW	3.38	5.17	6.84	8.70	10.7	12.9	15.3	17.7	15.5	17.4	19.4	21.6	24.0	25.8
	Heating kW	3.73	5.67	7.23	8.91	11.0	12.6	14.9	17.1	16.1	17.8	19.9	21.5	23.8	25.2
Capacity control	%	25-100	20-100	13-100	12-100	11-100	10-100	10-100	7-100	6-100		5-100			
Casing colour		Ivory white (5Y7.5/1)						Ivory white (5Y7.5/1)							
Compressor	Type	Hermetically sealed scroll type													
	Motor output kW	2.4x1	3.4x1	4.5x1	5.5x1	(2.9x1)+(3.3x1)	(3.6x1)+(3.7x1)	(4.1x1)+(4.0x1)	(3.7x1)+(6.3x1)	(4.5x1)+(5.5x1)	(5.5x1)+(5.5x1)	(5.5x1)+(2.9x1)+(3.3x1)	(5.5x1)+(3.6x1)+(3.7x1)	(5.5x1)+(4.1x1)+(4.0x1)	(3.6x1)+(3.7x1)+(3.6x1)+(3.7x1)
Airflow rate	m³/min	119	178		191	257		252	297	178+191	191+191	191+257		191+252	257+257
Dimensions (HxWxD)	mm	1,657x930x765				1,657x1,240x765		1,657x1,240x765		(1,657x930x765)+(1,657x930x765)		(1,657x930x765)+(1,657x1,240x765)			(1,657x1,240x765)+(1,657x1,240x765)
Machine weight	kg	185	200		285		305	325	200+200		200+285		200+305	285+285	
Sound level	dB(A)	56	57	59	60		61	65	61	62	63				
Operation range	Cooling °CDB	-5 to 49													
	Heating °CWB	-20 to 15.5													
Refrigerant	Type	R-410A													
	Charge kg	6.9	7.0	7.4	7.6	9.1	9.3	11.8		7.4+7.6	7.6+7.6	7.6+9.1	7.6+9.3	7.6+11.8	9.3+9.3
Piping connections	Liquid mm	φ9.5 (Brazing)				φ12.7 (Brazing)		φ15.9 (Brazing)				φ19.1 (Brazing)			
	Gas mm	φ19.1 (Brazing)		φ22.2 (Brazing)		φ28.6 (Brazing)		φ28.6 (Brazing)				φ34.9 (Brazing)			

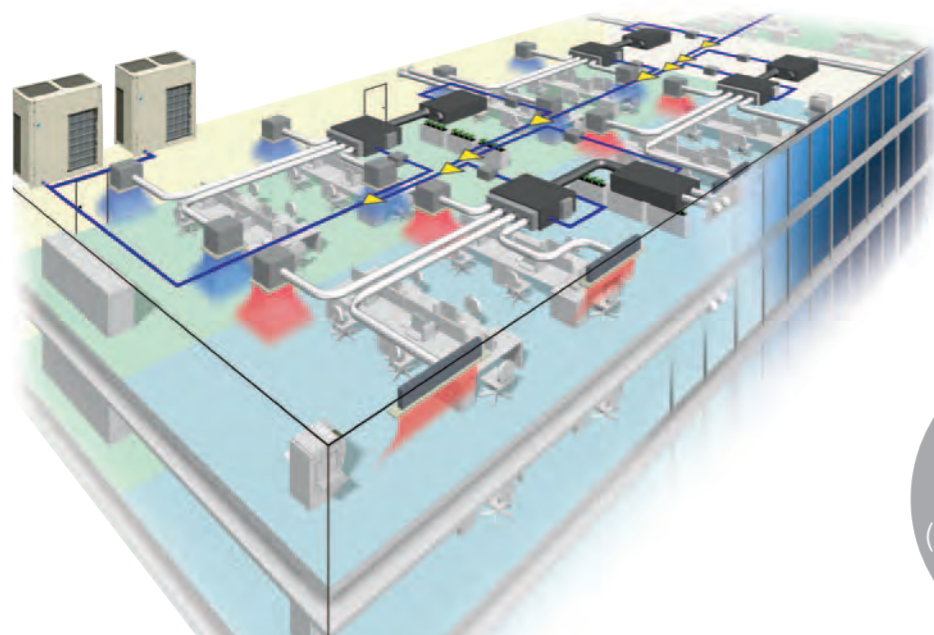
Model		RXYQ34AYMV	RXYQ36AYMV	RXYQ38AYMV	RXYQ40AYMV	RXYQ42AYMV	RXYQ44AYMV	RXYQ46AYMV	RXYQ48AYMV	RXYQ50AYMV	RXYQ52AYMV	RXYQ54AYMV	RXYQ56AYMV	RXYQ58AYMV	RXYQ60AYMV
Combination units		RXYQ16AYM	RXYQ16AYM	RXYQ18AYM	RXYQ20AYM	RXYQ12AYM	RXYQ12AYM	RXYQ14AYM	RXYQ16AYM	RXYQ16AYM	RXYQ16AYM	RXYQ18AYM	RXYQ18AYM	RXYQ18AYM	RXYQ20AYM
		RXYQ18AYM	RXYQ20AYM	RXYQ20AYM	RXYQ20AYM	RXYQ12AYM	RXYQ12AYM	RXYQ16AYM	RXYQ16AYM	RXYQ18AYM	RXYQ18AYM	RXYQ18AYM	RXYQ20AYM	RXYQ20AYM	RXYQ20AYM
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	324,000	345,000	362,000	382,000	399,000	420,000	444,000	461,000	478,000	495,000	512,000	532,000	553,000	573,000
	kW	95.0	101	106	112	117	123	130	135	140	145	150	156	162	168
Heating capacity	Btu/h	362,000	386,000	406,000	430,000	447,000	471,000	495,000	512,000	532,000	553,000	573,000	597,000	621,000	645,000
	kW	106	113	119	126	131	138	145	150	156	162	168	175	182	189
Power consumption	Cooling kW	28.2	30.6	33.0	35.4	32.7	35.1	36.5	38.7	41.1	43.5	45.9	48.3	50.7	53.1
	Heating kW	27.5	29.7	32.0	34.2	32.7	34.9	36.2	37.8	40.1	42.4	44.7	46.9	49.1	51.3
Capacity control	%	5-100	4-100		3-100	4-100	3-100	3-100						2-100	
Casing colour		Ivory white (5Y7.5/1)													
Compressor	Type	Hermetically sealed scroll type													
	Motor output kW	(3.6x1)+(3.7x1)+(4.1x1)+(4.0x1)	(3.6x1)+(3.7x1)+(3.7x1)+(6.3x1)	(4.1x1)+(4.0x1)+(3.7x1)+(6.3x1)	(3.7x1)+(6.3x1)+(3.7x1)+(6.3x1)	(5.5x1)+(5.5x1)+(4.1x1)+(4.0x1)	(5.5x1)+(5.5x1)+(3.7x1)+(6.3x1)	(2.9x1)+(3.3x1)+(3.6x1)+(3.7x1)+(3.6x1)+(3.7x1)+(3.6x1)+(3.7x1)	(3.6x1)+(3.7x1)+(3.6x1)+(3.7x1)	(3.6x1)+(3.7x1)+(3.6x1)+(3.7x1)+(4.0x1)	(3.6x1)+(3.7x1)+(4.1x1)+(4.0x1)	(3.6x1)+(3.7x1)+(4.1x1)+(4.0x1)	(4.1x1)+(4.0x1)+(4.1x1)+(4.0x1)	(4.1x1)+(4.0x1)+(4.1x1)+(4.0x1)	(4.1x1)+(4.0x1)+(3.7x1)+(6.3x1)
Airflow rate	m³/min	257+252	257+297	252+297	297+297	191+191+252	191+191+297	257+257+257		257+257+252	257+252+252	252+252+252	252+252+297	252+297+297	297+297+297
Dimensions (HxWxD)	mm	(1,657x1,240x765)+(1,657x1,240x765)				(1,657x930x765)+(1,657x930x765)+(1,657x1,240x765)		(1,657x1,240x765)+(1,657x1,240x765)+(1,657x1,240x765)							
Machine weight	kg	285+305	285+325	305+325	325+325	200+200+305	200+200+325	285+285+285		285+285+305	285+305+305	305+305+305	305+305+325	305+325+325	325+325+325
Sound level	dB(A)	64	66		68	65	67	65			66	68	69	70	
Operation range	Cooling °CDB	-5 to 49													
	Heating °CWB	-20 to 15.5													
Refrigerant	Type	R-410A													
	Charge kg	9.3+11.8		11.8+11.8		7.6+7.6+11.8		9.1+9.3+9.3	9.3+9.3+9.3	9.3+9.3+11.8	9.3+11.8+11.8	11.8+11.8+11.8			
Piping connections	Liquid mm	φ19.1 (Brazing)													
	Gas mm	φ34.9 (Brazing)		φ41.3 (Brazing)		φ19.1 (Brazing)								φ41.3 (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, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.

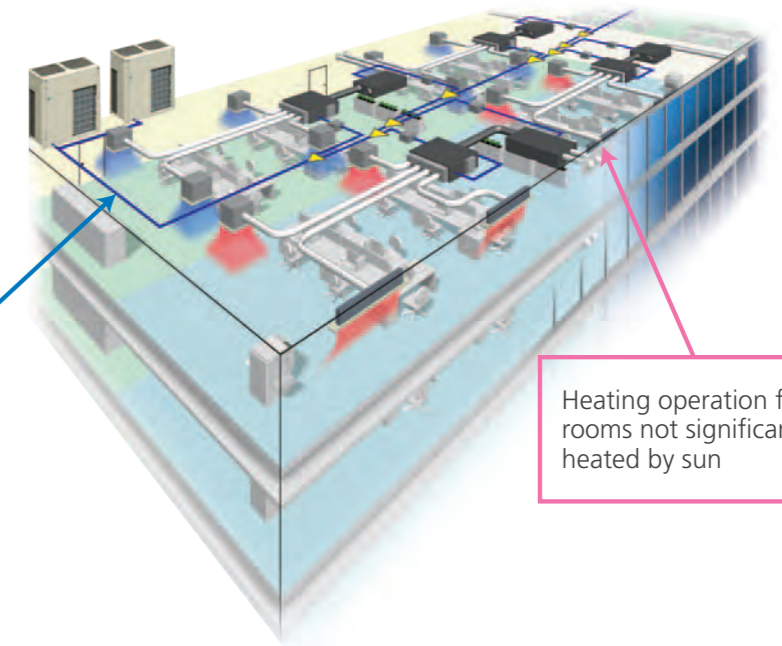
•Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

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.



Heat Recovery
8 HP - 60 HP
(22.4 kW) (168 kW)

Offers simultaneous cooling and heating operation on the same floor!



Cooling operation for rooms significantly heated by sun

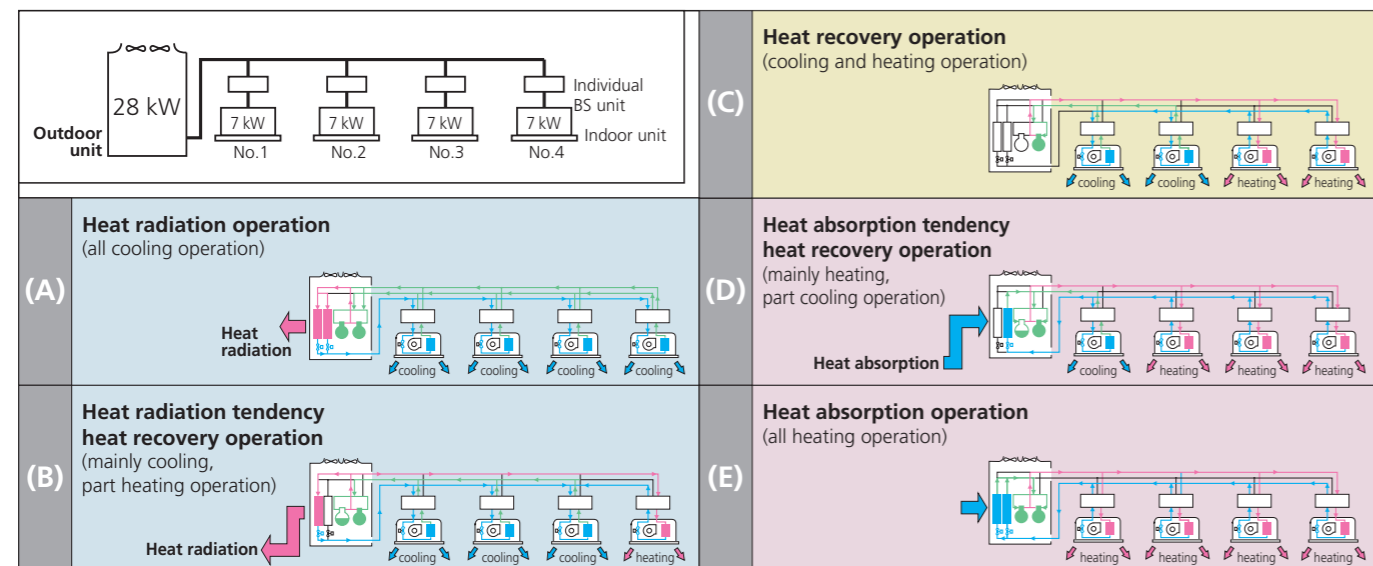
Heating operation for rooms not significantly heated by sun

What is Heat Recovery Air Conditioner?

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

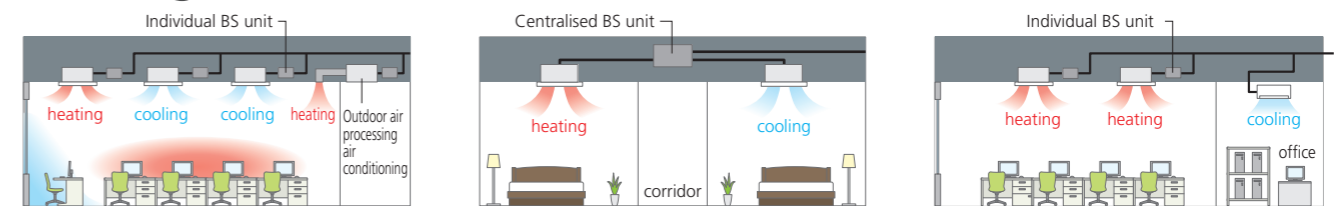
Operation mode

Heat recovery operation mode



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

Increasing demand for simultaneous cooling and heating needs



Winter season (Office Building)

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

Winter season (Hotel)

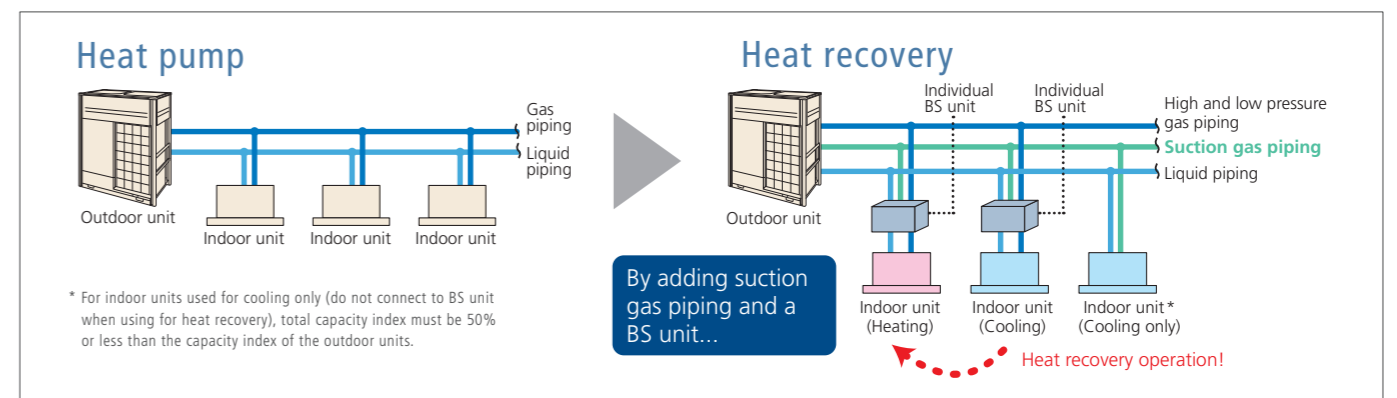
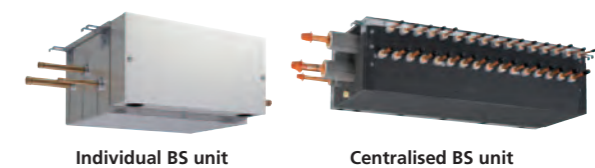
- Able to cater to individual heating and cooling requirement

Individual office

- Provides heating and annual cooling depending on space area

BS unit (Individual type/Centralised type)

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



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

Excellent Operational Performance

Advanced technologies for greater energy savings

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.

VRV+VRT+VAV

Software technology

VRT Smart Control

(Fully Automatic Energy-saving Refrigerant Control)

Optimally supply only for the needed capacity of indoor units

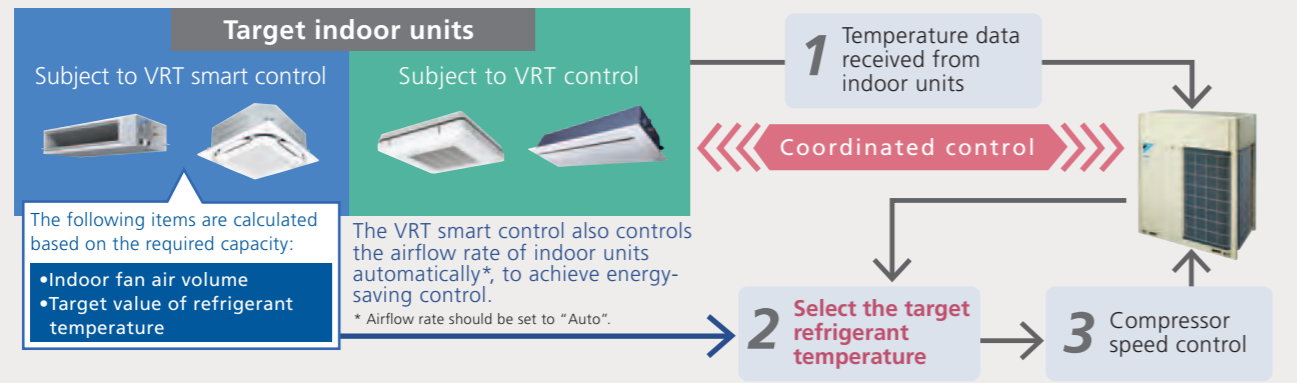
Daikin developed VRT smart control by combining air volume control (VAV: Variable Air Volume) for indoor units with conventional VRT control, which optimises compressor speed by calculating the required load for the entire system and optimal target refrigerant temperature based on data sent from each 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 (Spanish)

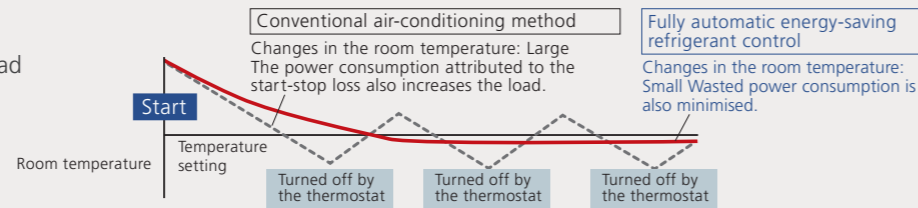
Overview of the control (system control flow)

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



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

Changes in the room temperature during low-load operation*



*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

Effectiveness can be demonstrated for VRT Smart Control and VRT Control 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:

- 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.
- Different operating hours for indoor units.
 - Time of Use
 - Energy efficiency decreases when the set temperature of a specified indoor unit is excessively lowered during cooling operation or excessively raised during heating operation.
 - The airflow rate setting is set to "Auto" during VRT Smart Control.

Wide range lineup

Wide capacity range from 8 to 60 HP

VRV R series Heat Recovery outdoor units offer a wide capacity range from 8 HP (22.4 kW) to 60 HP (168 kW) to meet a wide variety of needs.

Single Outdoor Unit

VRV III



8, 10, 12, 14, 16 HP

From 8 to 16 HP

VRV R SERIES



8, 10, 12 HP

14, 16, 18, 20 HP

From 8 to 20 HP

Multiple Outdoor Units

VRV III



From 18 to 48 HP

VRV R SERIES



From 22 to 60 HP

Lineup

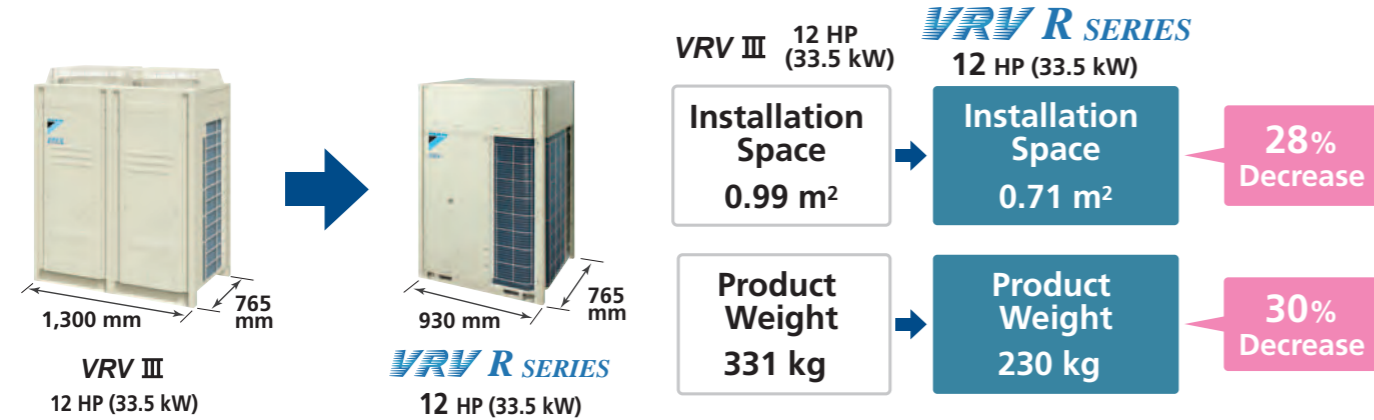
HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
VRV R SERIES	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Excellent Operational Performance

Ease of installation

Compact & lightweight design

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



Comfort

Lower operation sound

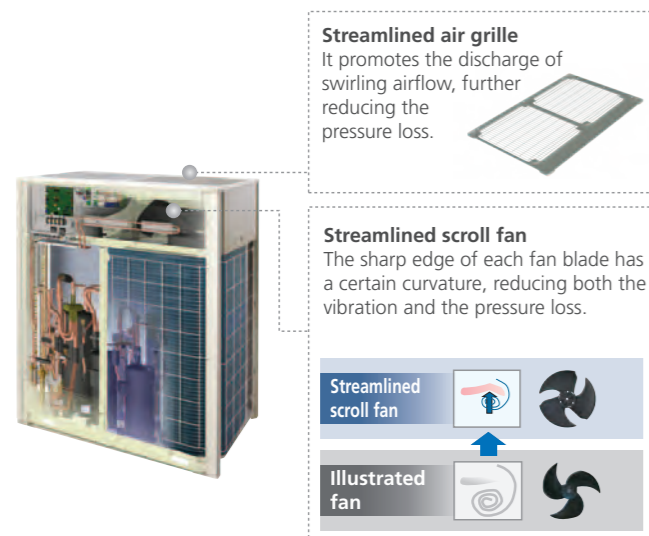
Improve heat exchanger efficiency, helps to reduced operation sound.

	Sound level (dB(A))				
	8 HP	10 HP	12 HP	14 HP	16 HP
VRV III	58	58	60	62	63
VRV R SERIES	56	57	59	60	61

VRV R SERIES achieves a **1-2 dB(A) reduction** than conventional model.

Large airflow, high static pressure and quiet technology

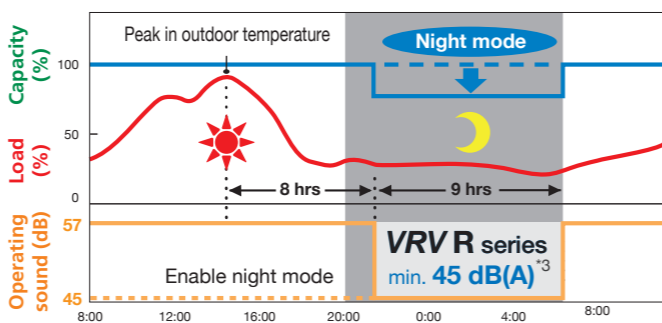
Without increasing operation sound, advanced analytical technologies are utilised to optimise fan design and increase airflow rate and high external static pressure.



Nighttime quiet operation function

Outdoor PCB automatically memorises the time when the peak outdoor temperature appears. It will enable quiet operation mode after 8 h¹, and return to normal mode after it keeps for 9 h².

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

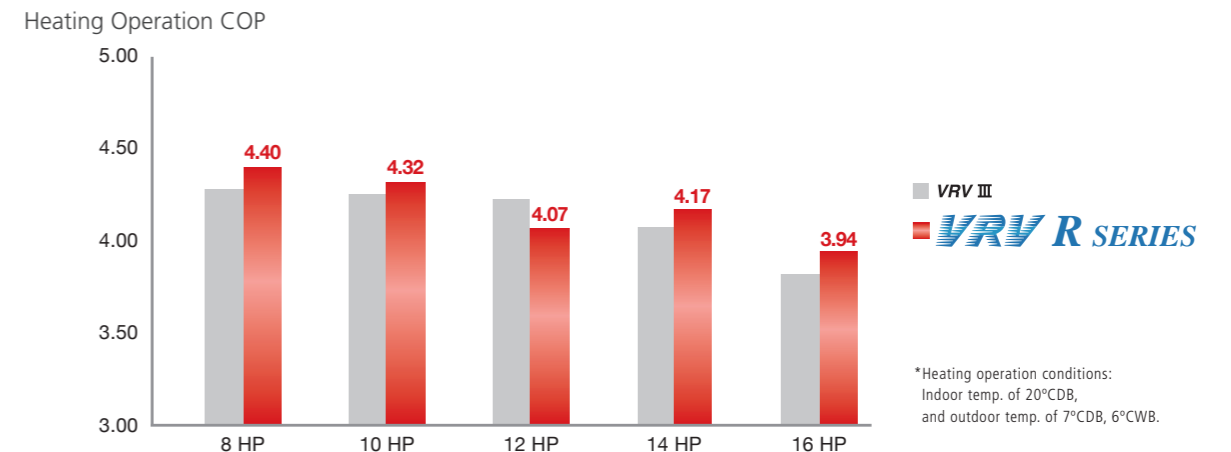
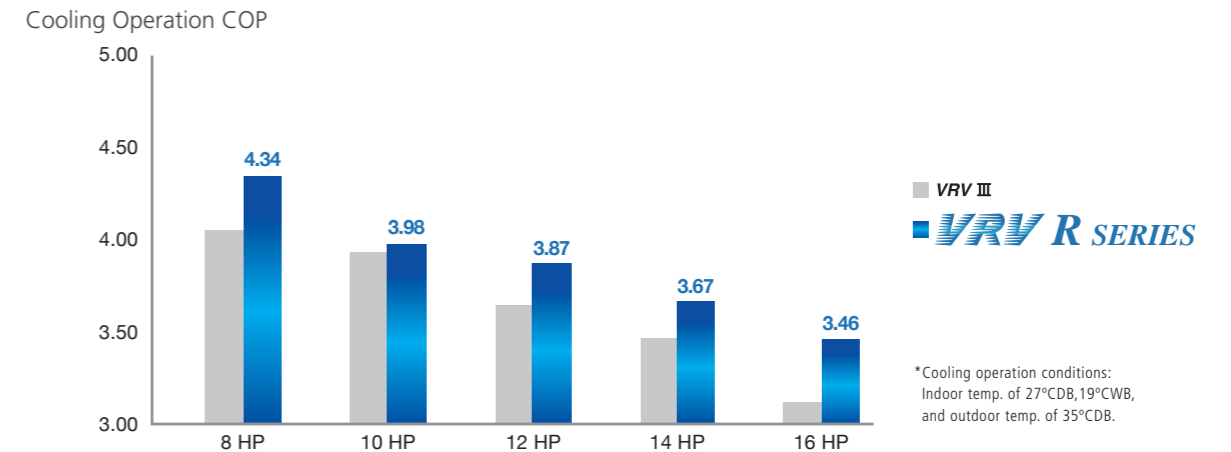


Note: · This function is available in setting at site.
 · The operating sound in quiet operation mode is the actual value measured by our company.
 · The relationship of outdoor temperature (load) and time shown above is just an example.

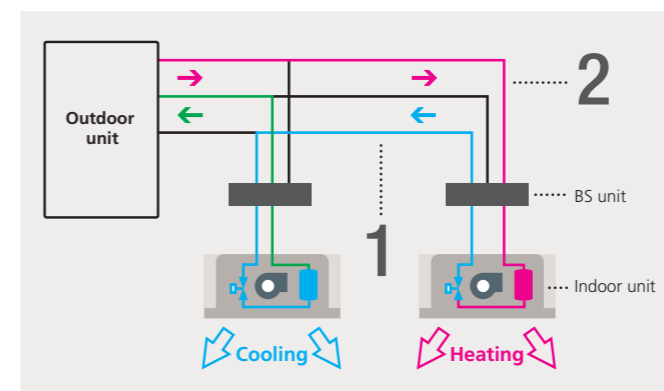
Energy saving

Higher Coefficient of Performance (COP)

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



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



- 1 The (cold) waste heat from heating is used for the cooling operation.
- 2 The waste heat from cooling is used to generate heat that is needed for heating operation while conserving electricity.

Excellent Operational Performance

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


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

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

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

Conventional model (VRV III)

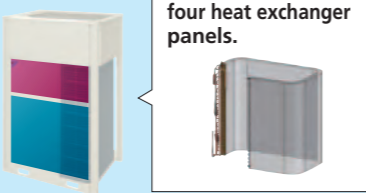
Two heat exchanger panels are used. Heat radiation loss from the condenser is high.



VRV R SERIES

The heat exchanger panel utilises a two-split structure (top and bottom), achieving higher heat recovery efficiency than the conventional model.

The size has been reduced by using four heat exchanger panels.



Indoor and outdoor heat balance (conceptual image)

[Indoor unit side]

Cooling load (heat absorption)

Heating load (heat radiation)

Heat recovery

The thermal load that cannot be recovered needs to be radiated from the outdoor unit.

[Outdoor unit side]

Conventional model (VRV III)

The condenser is large, resulting in unnecessary heat radiation.

Heat loss

VRV R SERIES

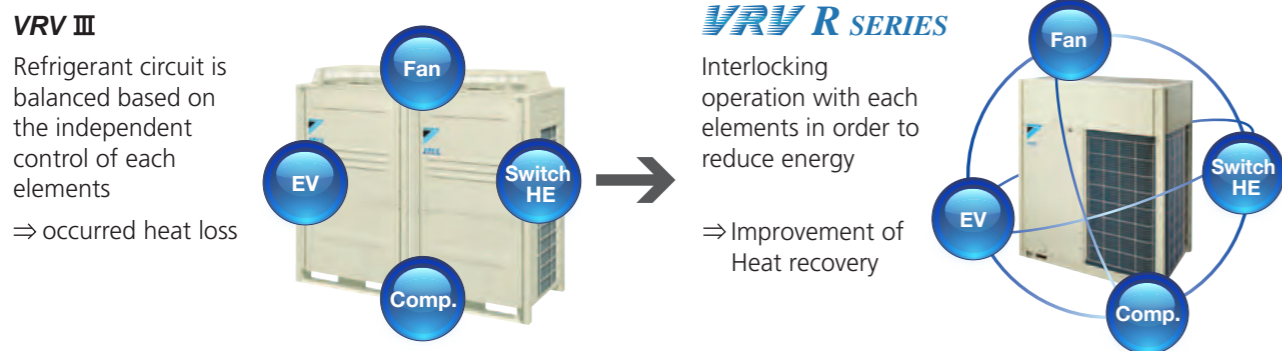
The optimal condensation capacity can be attained.

Heat loss control

■ Condenser ■ Evaporator

Heat Recovery Link control to reduce the heat loss

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



Advanced technologies achieve excellent performance

Highly integrated heat exchanger

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

VRV III

Fine Louvre Fin

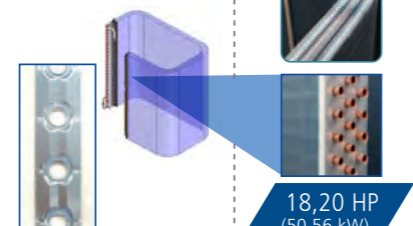


VRV R SERIES

Waffle Fin

18,20 HP (50,56 kW)

3-row small pipe design increases heat transfer efficiency.



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

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

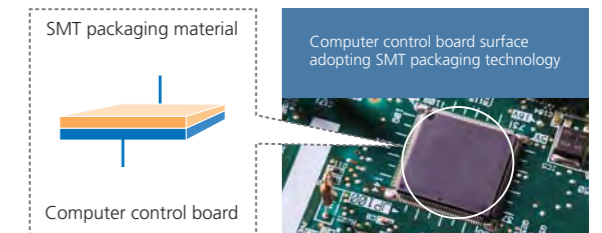
	Heat exchanger area	Contribution of COP (cooling)
16 HP (45 kW)	24%UP	108.5%

Various 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.

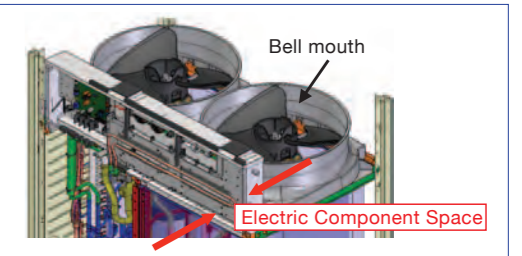
*SMT: Surface mounted technology



Refrigerant cooling technology ensures stability of PCB temperature

Improved inner design to increase smooth airflow

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



VRV III



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

VRV R SERIES



Control board failure ratio at stable operation is reduced.

Improve reliability at high ambient temperature

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

Enhanced Lineup of BS Units

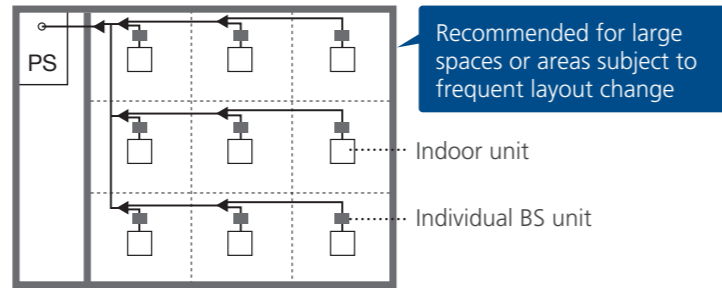
Individual and centralised BS unit allow greater design flexibility.

Individual BS unit



BSQ100AV1
BSQ160AV1
BSQ250AV1

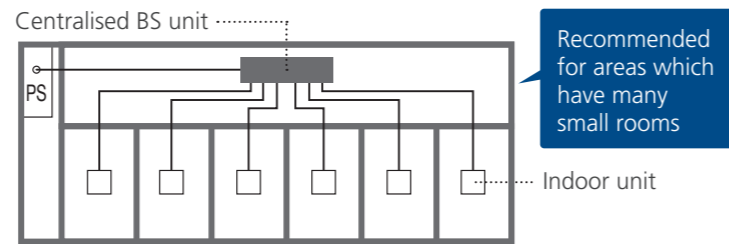
- Compact and flexible installation
- Flexible design
- Low noise



Centralised BS unit



BS4Q14AV1
BS6Q14AV1
BS8Q14AV1
BS10Q14AV1
BS12Q14AV1
BS16Q14AV1



Enhanced lineup

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

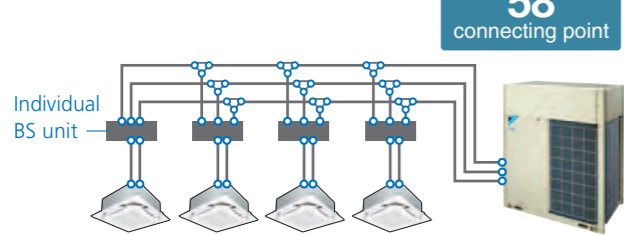
Compact and lightweight design

Compared to conventional BS unit (6 branch)

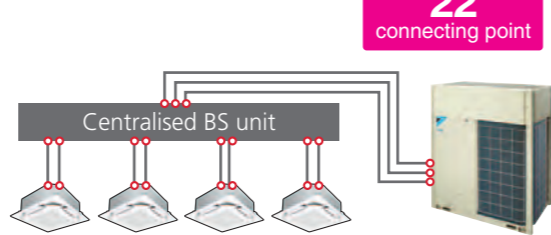
BS unit size **reduced by 65%** BS unit weight **reduced by 73%**

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

Individual BS unit

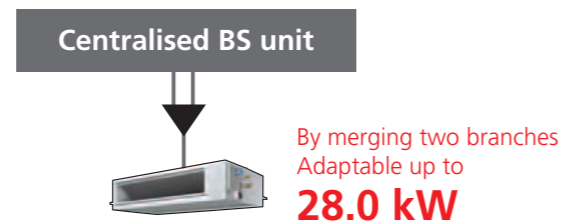
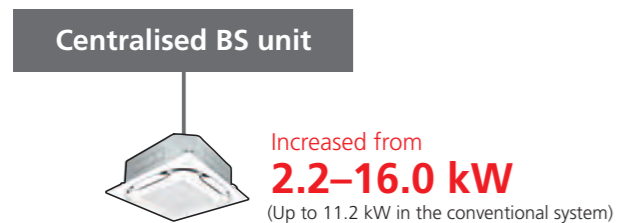


Centralised BS unit

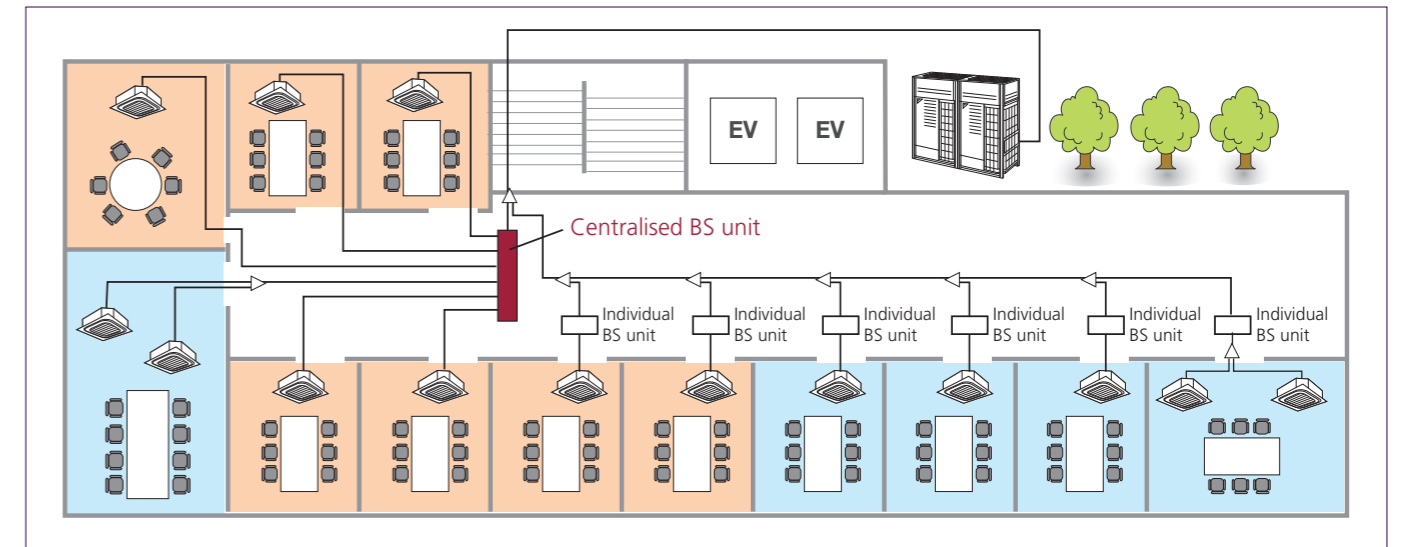


*Centralised BS unit requires drain pipe

Greater design flexibility achieved by increasing the connection capacity range



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



Faster installation of centralised BS unit thanks to open connection



Lower transient sound

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

Maximum transient sound		Centralised BS unit						Individual BS unit		
		4 branch	6 branch	8 branch	10 branch	12 branch	16 branch	100 type	160 type	250 type
New BS units	Sound level (dB(A))*	45	47	47	48	48	49	40	45	45
Conventional BS units	Sound level (dB(A))*	51.5	53.5					45.5	46.5	47.5

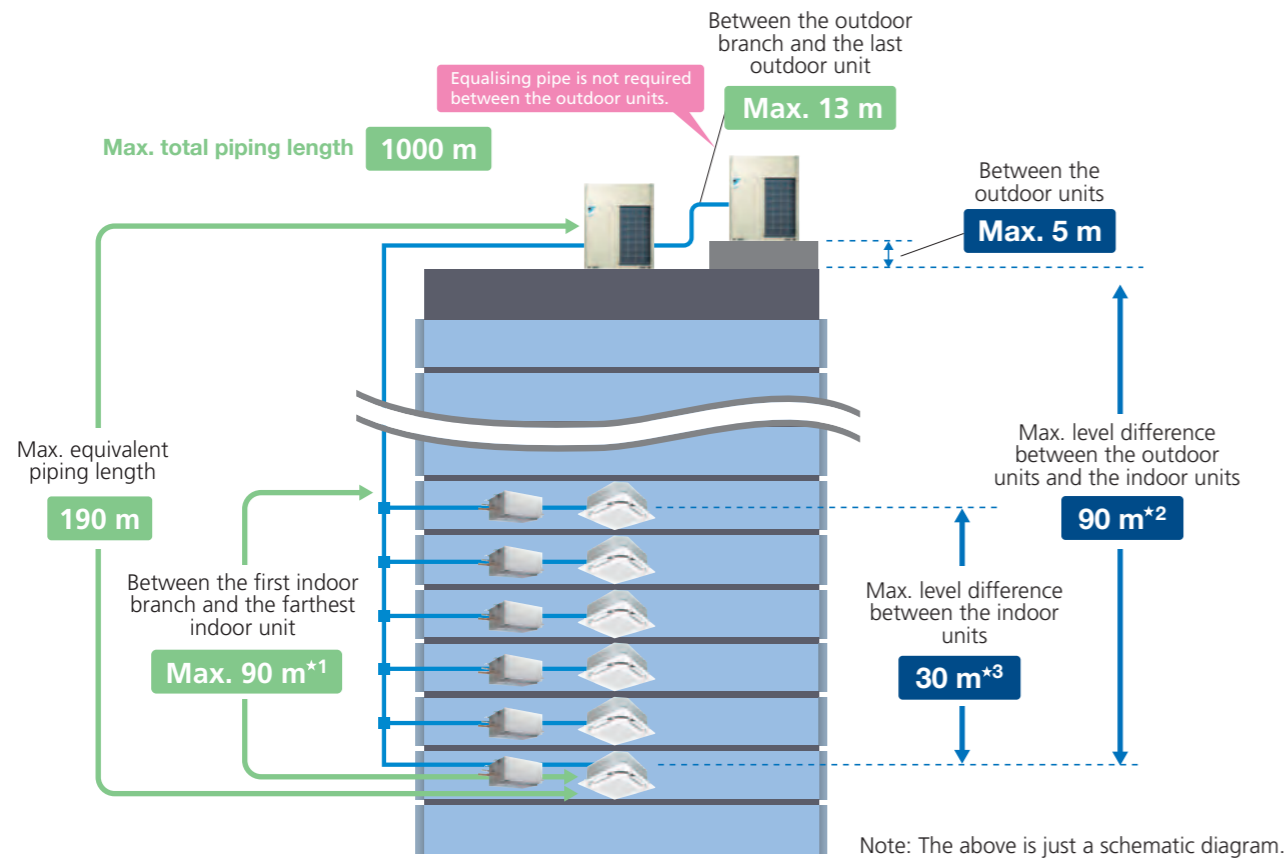
*Anechoic chamber conversion value, measured at a point 1 m downward from the unit centre.

More Flexible System Design

More options for equipment placement

Long piping length

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



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 ^{*3}
	Between the outdoor units and the indoor units	90 m ^{*2}

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

Connection ratio

Connection capacity at maximum is 200%.

Connection ratio
50%–200%

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

Conditions of VRV indoor unit connection capacity

Applicable VRV indoor units	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 44 for outdoor unit combination details.

High external static pressure

VRV R series outdoor unit has 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.

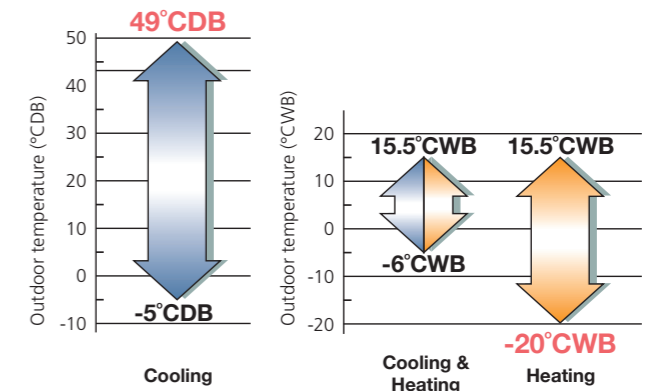
78.4 Pa

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



Wide operation temperature range

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

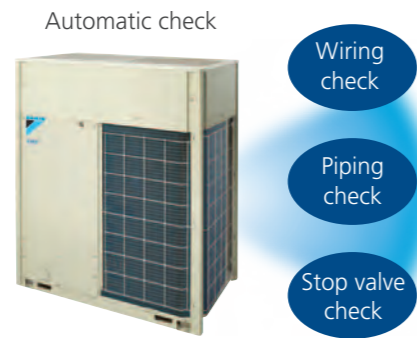


Reliable and Stable System

Multiple advanced features ensuring more accurate test operation and stable system

Efficient automatic test operation

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

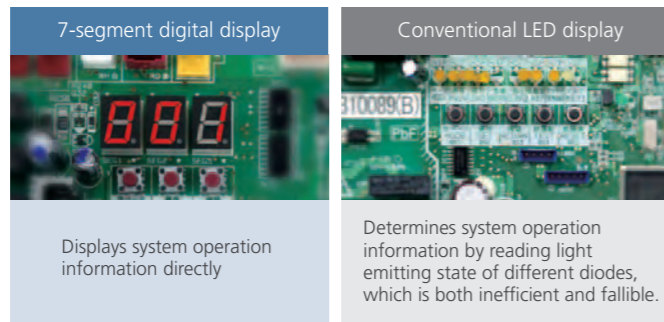


- Automatically checks the wiring between outdoor units and indoor units to confirm whether there is defective wiring.
- Confirms piping length to optimise operation.
- Automatically checks whether the stop valve in each outdoor unit is functioning normally to ensure the smooth operation of air conditioning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

Simplified commissioning and after-sales service

Function of information display by luminous digital tube

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



Compliant with the RoHS Directive*

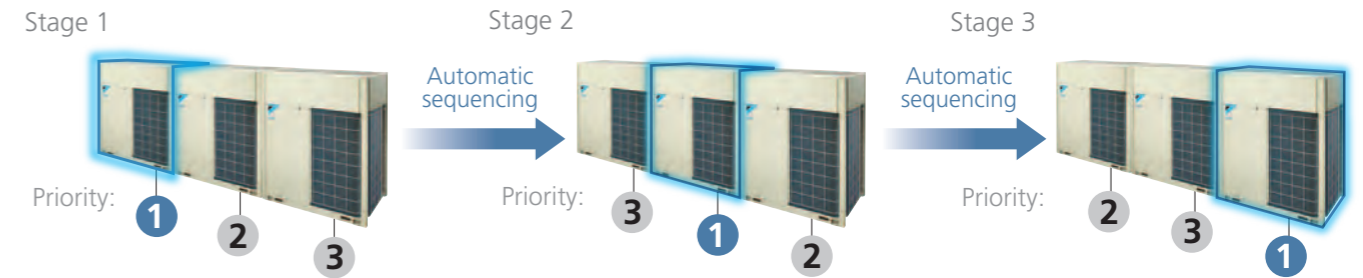
We have been making efforts to facilitate the transition to using RoHS Directive*-compliant materials for system parts.

*** RoHS Directive**

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

Automatic sequencing operation

During start-up, Daikin VRV R 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.



Double backup operation functions

Daikin VRV R 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.

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 REYQ14-20TAY1 models. On-site settings are required using the PCB of the outdoor unit.

Outdoor Unit Lineup

VRV R Series Outdoor Units New

Heat Recovery

Wider capacity range from 8 to 60 HP

- VRV R series Heat Recovery outdoor units offer a wider capacity range from 8 HP (22.4 kW) to 60 HP (168 kW) to meet an ever wider variety of needs.
- The single outdoor unit has only 2 different shapes and dimensions, not only simplifying the design process, but also bringing the system design flexibility to a new level.

Lineup

HP		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
VRV R SERIES	Standard Type	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Standard Type

Single Outdoor Units

8, 10, 12 HP

14, 16, 18, 20 HP



REYQ8TAY1
REYQ10TAY1
REYQ12TAY1



REYQ14TAY1
REYQ16TAY1
REYQ18TAY1
REYQ20TAY1

Double Outdoor Units

22, 24 HP

26, 28, 30 HP

32, 34, 36 HP



REYQ22TAY1
REYQ24TAY1



REYQ26TAY1
REYQ28TAY1
REYQ30TAY1



REYQ32TAY1
REYQ34TAY1
REYQ36TAY1

Triple Outdoor Units

38, 40 HP

42, 44 HP

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



REYQ38TAY1
REYQ40TAY1



REYQ42TAY1
REYQ44TAY1



REYQ46TAY1 REYQ52TAY1 REYQ58TAY1
REYQ48TAY1 REYQ54TAY1 REYQ60TAY1
REYQ50TAY1 REYQ56TAY1

Outdoor Unit Combinations

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

Note: *1. For multiple connection of 22 HP systems and above, the outdoor unit multi connection piping kit (separately sold) is required.
 *2. Values inside brackets are based on connection of indoor units rated at maximum capacity, 200% for single outdoor units, 160% for double outdoor units, and 130% for triple outdoor units.
 Refer to page 40 for note on connection capacity of indoor units.

VRV R Series Outdoor Units REYQ-TA

Heat Recovery

Model		REYQ8TAY1	REYQ10TAY1	REYQ12TAY1	REYQ14TAY1	REYQ16TAY1	REYQ18TAY1	REYQ20TAY1	REYQ22TAY1	REYQ24TAY1	REYQ26TAY1	REYQ28TAY1	REYQ30TAY1	REYQ32TAY1			
Combination units		—	—	—	—	—	—	—	REYQ10TAY1	REYQ12TAY1	REYQ14TAY1	REYQ12TAY1	REYQ16TAY1				
Power supply		3-phase 4-wire system, 380-415 V, 50 Hz						3-phase 4-wire system, 380-415 V, 50 Hz									
Cooling capacity	Btu/h	76,400	95,500	114,000	136,000	154,000	171,000	191,000	210,000	229,000	251,000	268,000	285,000	307,000			
	kW	22.4	28.0	33.5	40.0	45.0	50.0	56.0	61.5	67.0	73.5	78.5	83.5	90.0			
Heating capacity	Btu/h	85,300	107,000	128,000	154,000	171,000	191,000	215,000	235,000	256,000	281,000	299,000	319,000	341,000			
	kW	25.0	31.5	37.5	45.0	50.0	56.0	63.0	69.0	75.0	82.5	87.5	93.5	100			
Power consumption	Cooling	5.16	7.04	8.66	10.9	13.0	15.4	18.0	15.7	17.3	19.6	21.7	24.1	26.0			
	Heating	5.68	7.29	9.22	10.8	12.7	15.0	17.5	16.5	18.4	20.0	21.9	24.2	25.4			
Capacity control	%	20-100	16-100	15-100	11-100	10-100	8-100			6-100			5-100				
Casing colour		Ivory white (5Y7.5/1)						Ivory white (5Y7.5/1)									
Compressor	Type	Hermetically sealed scroll type															
	Motor output	3.3x1	4.0x1	4.9x1	(3.0x1)+(3.1x1)	(3.4x1)+(3.7x1)	(3.6x1)+(5.0x1)	(4.0x1)+(6.1x1)	(4.0x1)+(4.9x1)	(4.9x1)+(4.9x1)	(4.9x1)+(3.0x1)+(3.1x1)	(4.9x1)+(3.4x1)+(3.7x1)	(4.9x1)+(3.6x1)+(5.0x1)	(3.4x1)+(3.7x1)+(3.4x1)+(3.7x1)			
Airflow rate	m³/min	158	168	180	234	239	226	269	168+180	180+180	180+234	180+239	180+226	239+239			
Dimensions (HxWxD)	mm	1,657x930x765			1,657x1,240x765			1,657x1,240x765		(1,657x930x765)+(1,657x930x765)		(1,657x930x765)+(1,657x1,240x765)			(1,657x1,240x765)+(1,657x1,240x765)		
Machine weight	kg	215	230		310		342		230+230		230+310		230+342		310+310		
Sound level	dB(A)	56	57	59	60	61	62	65	61	62	63	64					
Operation range	Cooling	-5 to 49															
	Heating	-20 to 15.5															
	Cooling & Heating	-6 to 15.5															
Refrigerant	Type	R-410A															
	Charge	9.7	9.8	9.9	11.8		11.8		9.8+9.9	9.9+9.9	9.9+11.8			11.8+11.8			
Piping connections	Liquid	φ9.5 (Brazeing)			φ12.7 (Brazeing)			φ15.9 (Brazeing)					φ19.1 (Brazeing)				
	Gas	φ19.1 (Brazeing)	φ22.2 (Brazeing)	φ28.6 (Brazeing)			φ28.6 (Brazeing)					φ34.9 (Brazeing)					
	High and low pressure gas	φ15.9 (Brazeing)			φ19.1 (Brazeing)			φ22.2 (Brazeing)		φ28.6 (Brazeing)			φ28.6 (Brazeing)				

Model		REYQ34TAY1	REYQ36TAY1	REYQ38TAY1	REYQ40TAY1	REYQ42TAY1	REYQ44TAY1	REYQ46TAY1	REYQ48TAY1	REYQ50TAY1	REYQ52TAY1	REYQ54TAY1	REYQ56TAY1	REYQ58TAY1	REYQ60TAY1				
Combination units		REYQ16TAY1	REYQ16TAY1	REYQ12TAY1	REYQ12TAY1	REYQ10TAY1	REYQ12TAY1	REYQ14TAY1	REYQ16TAY1	REYQ16TAY1	REYQ16TAY1	REYQ18TAY1	REYQ18TAY1	REYQ18TAY1	REYQ20TAY1				
Power supply		3-phase 4-wire system, 380-415 V, 50 Hz						3-phase 4-wire system, 380-415 V, 50 Hz											
Cooling capacity	Btu/h	324,000	345,000	365,000	382,000	403,000	423,000	444,000	461,000	478,000	495,000	512,000	532,000	553,000	573,000				
	kW	95.0	101	107	112	118	124	130	135	140	145	150	156	162	168				
Heating capacity	Btu/h	362,000	386,000	409,000	427,000	450,000	471,000	495,000	512,000	532,000	553,000	573,000	597,000	621,000	645,000				
	kW	106	113	120	125	132	138	145	150	156	162	168	175	182	189				
Power consumption	Cooling	28.4	31.0	28.2	30.3	33.0	34.7	36.9	39.0	41.4	43.8	46.2	48.8	51.4	54.0				
	Heating	27.7	30.2	29.2	31.1	32.7	34.6	36.2	38.1	40.4	42.7	45.0	47.5	50.0	52.5				
Capacity control	%	4-100						3-100											
Casing colour		Ivory white (5Y7.5/1)						Ivory white (5Y7.5/1)											
Compressor	Type	Hermetically sealed scroll type																	
	Motor output	(3.4x1)+(3.7x1)+(3.6x1)+(5.0x1)	(3.4x1)+(3.7x1)+(4.0x1)+(6.1x1)	(4.9x1)+(4.9x1)+(3.0x1)+(3.1x1)	(4.9x1)+(4.9x1)+(3.4x1)+(3.7x1)	(4.0x1)+(3.4x1)+(3.7x1)+(3.4x1)+(3.7x1)	(4.9x1)+(3.4x1)+(3.7x1)+(3.4x1)+(3.7x1)	(3.0x1)+(3.1x1)+(3.4x1)+(3.7x1)+(3.4x1)+(3.7x1)	(3.4x1)+(3.7x1)+(3.4x1)+(3.7x1)+(3.4x1)+(3.7x1)	(3.4x1)+(3.7x1)+(3.4x1)+(3.7x1)+(3.6x1)+(5.0x1)	(3.6x1)+(5.0x1)+(3.6x1)+(5.0x1)+(3.6x1)+(5.0x1)	(3.6x1)+(5.0x1)+(3.6x1)+(5.0x1)+(4.0x1)+(6.1x1)	(3.6x1)+(5.0x1)+(3.6x1)+(5.0x1)+(6.1x1)+(6.1x1)	(3.6x1)+(5.0x1)+(3.6x1)+(5.0x1)+(6.1x1)+(6.1x1)	(4.0x1)+(6.1x1)+(4.0x1)+(6.1x1)+(4.0x1)+(6.1x1)				
Airflow rate	m³/min	239+226	239+269	180+180+234	180+180+239	168+239+239	180+239+239	234+239+239	239+239+239	239+239+226	239+226+226	226+226+226	226+226+269	226+269+269	269+269+269				
Dimensions (HxWxD)	mm	(1,657x1,240x765)+(1,657x1,240x765)		(1,657x930x765)+(1,657x930x765)		(1,657x930x765)+(1,657x1,240x765)		(1,657x1,240x765)+(1,657x1,240x765)											
Machine weight	kg	310+342		230+230+310		230+310+310		310+310+310			310+310+342		342+342+342						
Sound level	dB(A)	65	66	64	65		65	65	66	66	67	68	69	70					
Operation range	Cooling	-5 to 49																	
	Heating	-20 to 15.5																	
	Cooling & Heating	-6 to 15.5																	
Refrigerant	Type	R-410A																	
	Charge	11.8+11.8		9.9+9.9+11.8		9.8+11.8+11.8		9.9+11.8+11.8		11.8+11.8+11.8									
Piping connections	Liquid	φ19.1 (Brazeing)																	
	Gas	φ34.9 (Brazeing)	φ41.3 (Brazeing)																
	High and low pressure gas	φ28.6 (Brazeing)		φ34.9 (Brazeing)		φ34.9 (Brazeing)													

Note: Specifications are based on the following conditions;
 •Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
 •Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
 •Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.
 During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.
 When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

VRV R SERIES Heat Recovery

Indoor Unit Lineup

Daikin offers a wide range of indoor units including 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.81

New FXFSQ-AVM




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

Ceiling Mounted Cassette (Round Flow) Type P.81

New FXFQ-AVM




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

Ceiling Mounted Cassette (Compact Multi Flow) Type P.91

FXZQ-MVE




Quiet, compact, and designed for user comfort

4-Way Flow Ceiling Suspended Type P.92

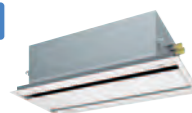

FXUQ-AVEB




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

Ceiling Mounted Cassette (Double Flow) Type P.93

New FXCQ-AVM

Sophisticated panel design blends easily with any interior

Ceiling Mounted Cassette Corner Type P.95

FXKQ-MAVE




Slim design for flexible installation

Slim Ceiling Mounted Duct Type P.96

New FXDQ-PDVE(T)

New FXDQ-NDVE(T)




Slim design, quietness and static pressure switching

Middle Static Pressure Ceiling Mounted Duct Type P.97

New FXSQ-PAVE





Middle external static pressure and slim design allow flexible installations

Ceiling Mounted Duct Type P.99

New FXMQ-PAVE

FXMQ-MAVE




High external static pressure allows flexible installations

Ceiling Suspended Type P.101

FXHQ-MAVE

New FXHQ-AVM




Slim body with quiet and wide airflow

Wall Mounted Type P.103

New FXAQ-AVM




Stylish flat panel design harmonised with your interior décor.

Floor Standing Type P.105

FXLQ-MAVE




Suitable for perimeter zone air conditioning

Concealed Floor Standing Type P.105

FXNQ-MAVE




Designed to be concealed against the wall

Floor Standing Duct Type P.106

FXVQ-NY1(6)




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

Residential indoor units with connection to BP units

Slim Ceiling Mounted Duct Type P.107

CDXS-EAVMA

FDXS-CVMA




Slim and smooth design suits your shallow ceiling

Wall Mounted Type P.108

FTXJ-NVMVW

FTXJ-NVMVS






Elegant appearance with European style

Wall Mounted Type P.109

FTXS-DVMA

FTXS-EVMA

FTXS-FVMA

Stylish flat panel harmonises with your interior décor

Air treatment equipment

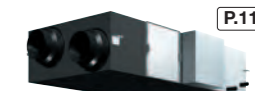
Outdoor-Air Processing Unit P.113

FXMQ-MFV1



Heat Reclaim Ventilator with DX-Coil and Humidifier P.117

VKM-GA(M)



Heat Reclaim Ventilator P.121

VAM-GJ





Wide variety of decoration panels (Option)

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

FXFSQ series only

FXFQ series only

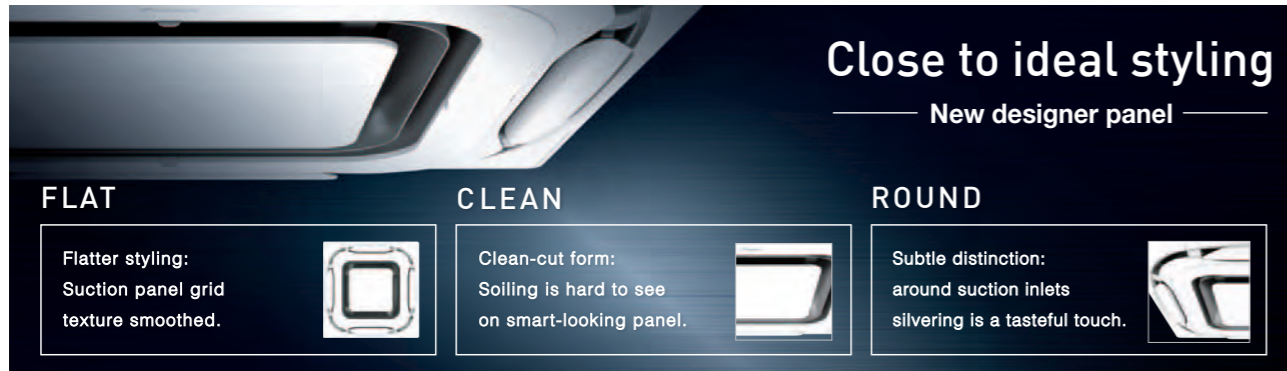
Standard panel with sensing

Designer panel

Standard panel



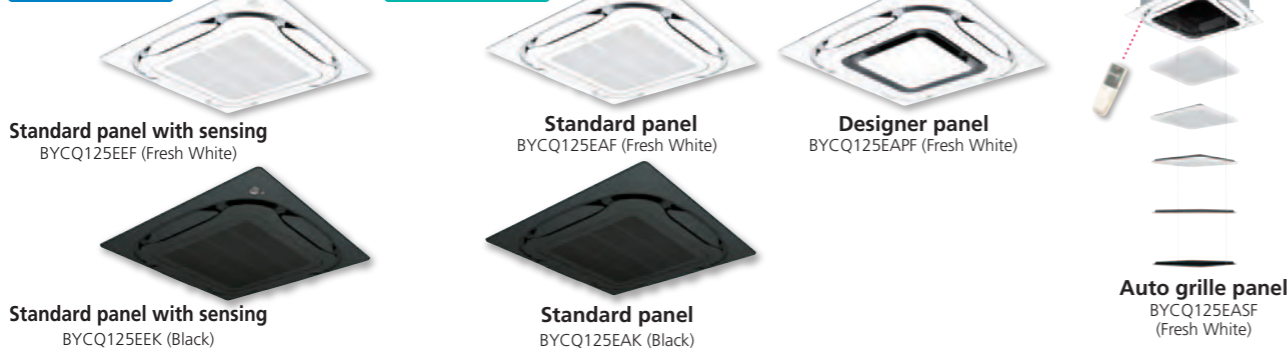
Designer panel (Option)



Decoration Panel Lineup (Option)

FXFSQ series only

FXFQ series only



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	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 /M/L)	m ³ /min	13/12.5/11.5 /11/10		17/13.5/12.5 /12/11	23/20.5/19 /14.5/11	23.5/21/20 /16/13.5	24.5/22/20.5 /20/15	33.5/30.5/27 /23.5/21	34.5/31.5/28.5 /25.5/23	35.5/32.5/29.5 /26.5/23
	cfm	459/441/406 /388/353		600/477/441 /424/388	812/724/671 /512/388	830/741/706 /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 /M/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 (HxWxD)	mm	256x840x840								
Machine weight	kg	19			24		22		25	
Piping connections	Liquid (Flare)	φ 6.4			φ 6.4		φ 9.5		φ 9.5	
	Gas (Flare)	φ 12.7			φ 12.7		φ 15.9		φ 15.9	
	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	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 /M/L)	m ³ /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 /M/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 (HxWxD)	mm	256x840x840								
Machine weight	kg	19			22		25		26	
Piping connections	Liquid (Flare)	φ 6.4			φ 6.4		φ 9.5		φ 9.5	
	Gas (Flare)	φ 12.7			φ 12.7		φ 15.9		φ 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.

Decoration Panel (Option)

		Round Flow with Sensing Type	Round Flow Type
		FXFSQ-A	FXFQ-A
Standard panel with sensing	Model	BYCQ125EEF (Fresh White) / BYCQ125EEK (Black)	—
	Dimensions(HxWxD)	50x950x950	—
	Weight	5.5	—
Standard panel	Model	BYCQ125EAF (Fresh White (6.5Y9.5/0.5)) / BYCQ125EAK (Black (N1.5))	
	Dimensions(HxWxD)	50x950x950	
	Weight	5.5	
Designer panel	Model	BYCQ125EAPF (Fresh White (6.5Y9.5/0.5))	
	Dimensions(HxWxD)	97x950x950	
	Weight	6.5	
Auto grille panel	Model	BYCQ125EASF (Fresh White (6.5Y9.5/0.5))	
	Dimensions(HxWxD)	105x950x950	
	Weight	8	

Function List

		Round Flow with Sensing Type	Round Flow Type
		FXFSQ-A	FXFQ-A
Remote controller	Wired	BRC1E63	—
	Wireless	—	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.



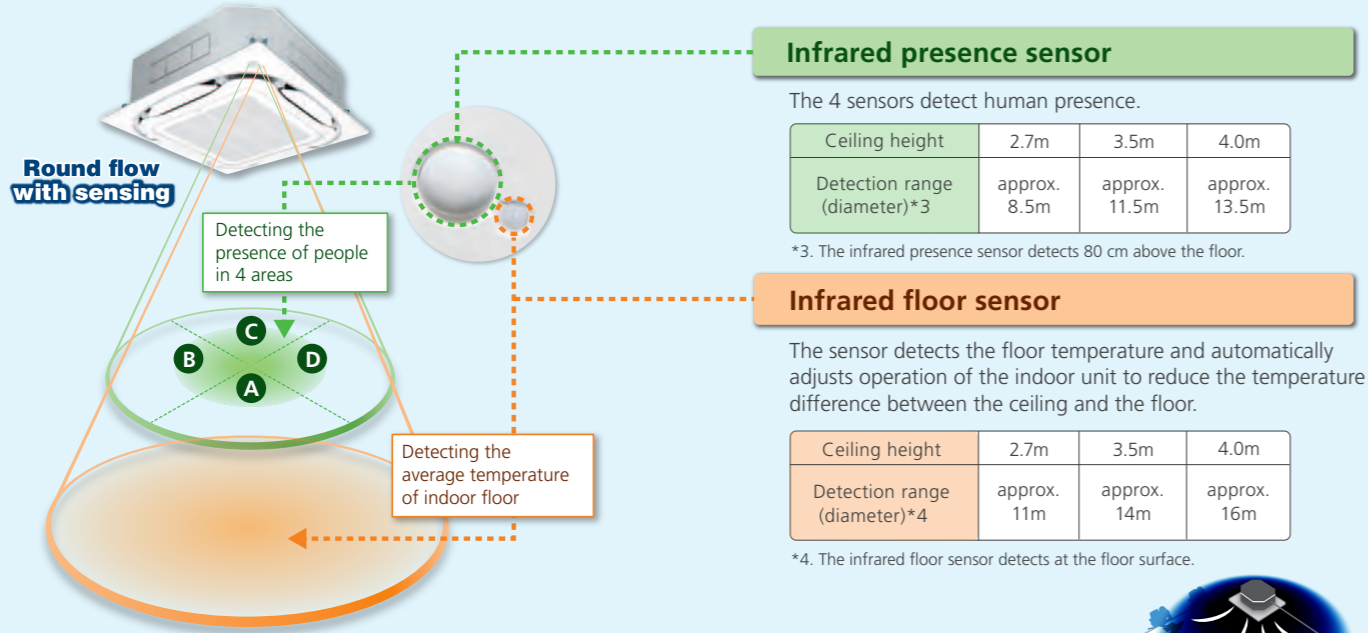
Daikin Advanced Sensing Functions^{*1,2} **FXFSQ series only**

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

Dual sensors^{*1}

*1. Applicable when sensing panel (BYCQ125EEF/EEK) is installed.
*2. Applicable when wired remote controller BRC1E63 is used.

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

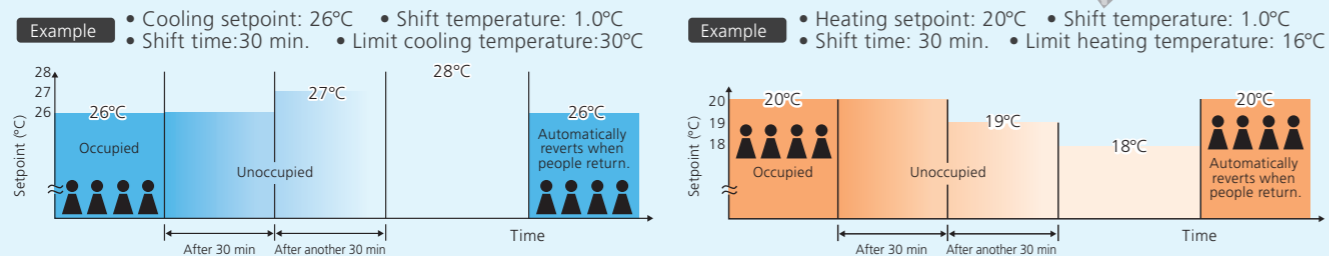


Sensing sensor functions^{*1*5*6}

Sensing sensor low mode (default: OFF)

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

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



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

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

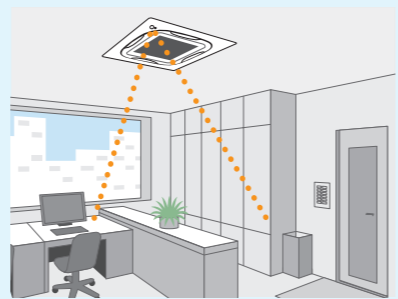
Sensing sensor stop mode (default: OFF)

When there are no people in a room, the system stops automatically.^{*7*8}

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.

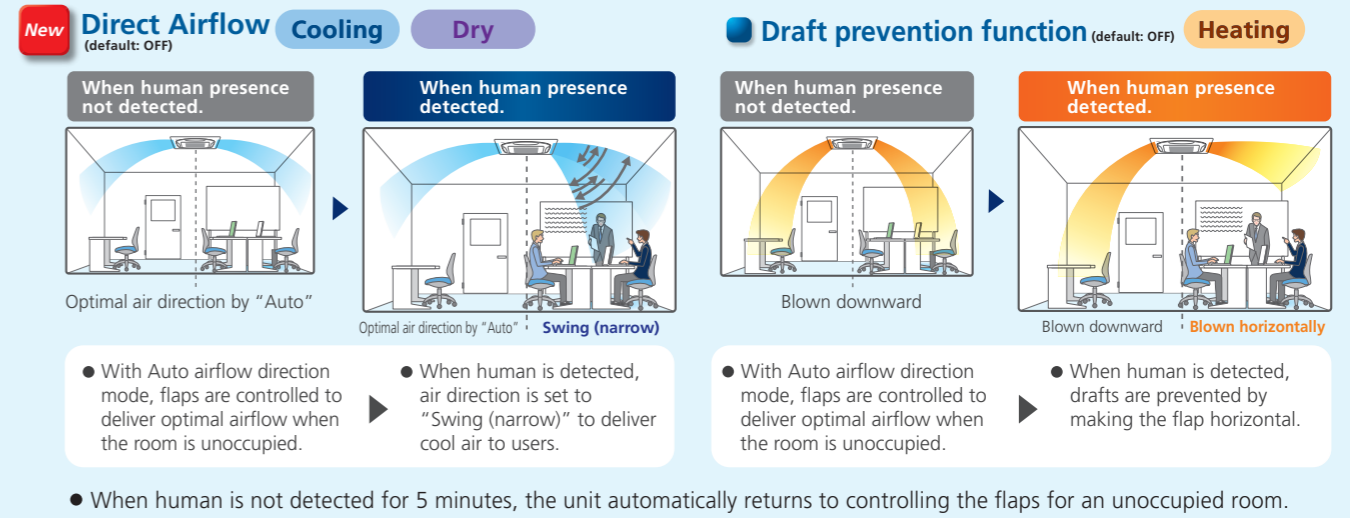
Absent stop time can be selected from 1 to 24 hrs in 1 hr increments with remote controller.

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



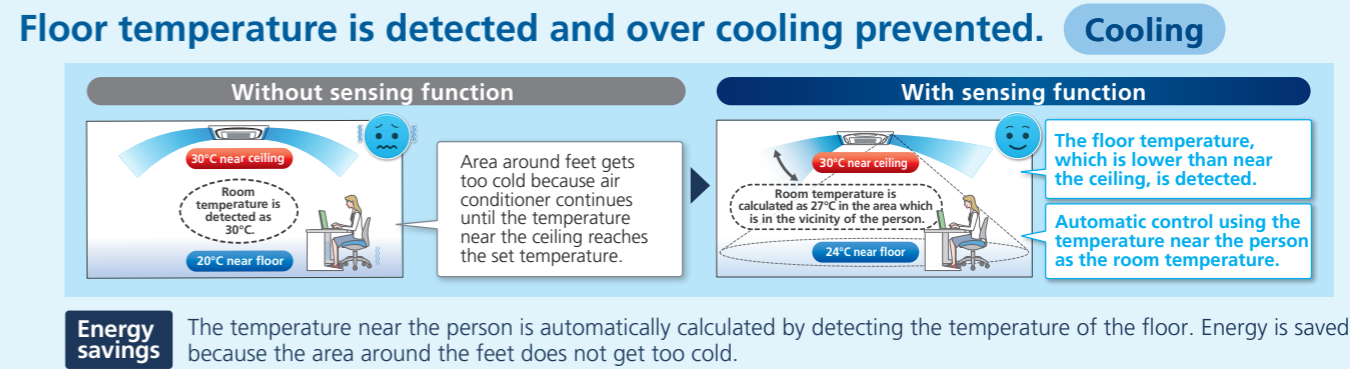
Auto airflow function^{*9}

*9. Airflow direction should be set to "Auto".

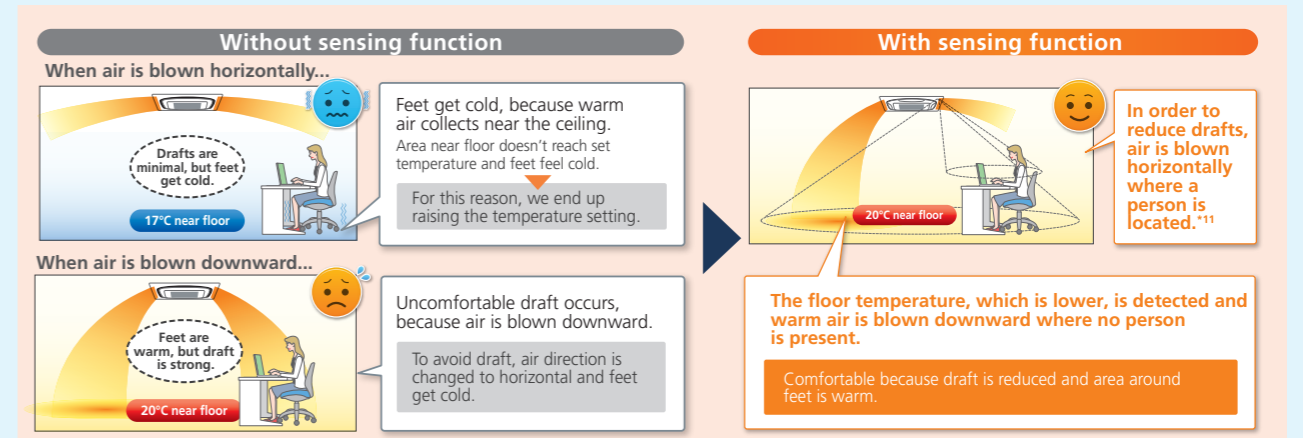


Comfort and energy saving preventing over cooling/heating^{*10}

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



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



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.

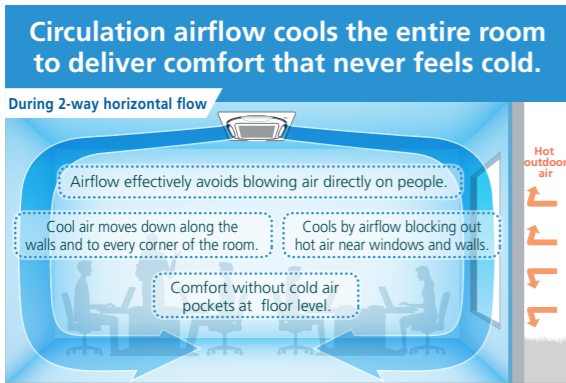
*11. Draft prevention function is set OFF in the initial setting.



New Circulation Airflow^{*1,2}

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

Cooling



Heating



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

Cooling

4-way cassette (Swing)

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 savings^{*3} 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)

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 savings^{*4} 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)

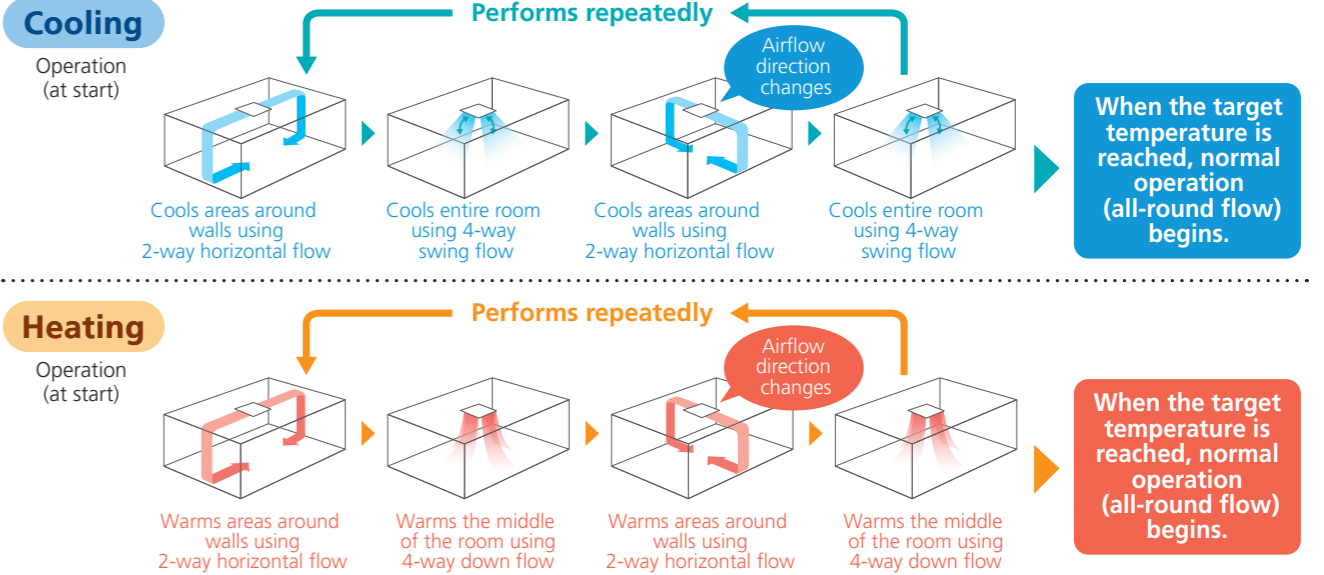
Areas around walls and feet are warm.

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

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

Configurations of Circulation Airflow

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

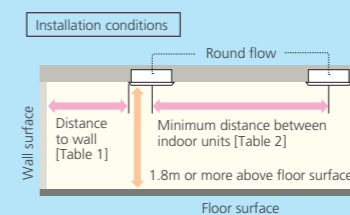


Three Technologies That Achieved Circulation Airflow

- Use of new wide flaps (Straight)**
With new, larger flaps, a straighter trajectory for airflow was achieved.
Conventional flap*5 vs. New wide flap. New wide flap construction inhibits ceiling dirt and grime. By tapering both flap ends, the airflow that causes dirty ceilings is directed downward. Approx. doubled.
- Optimizing airflow angle (Horizontally)**
The airflow angle was made more horizontal. Conventional flap*5 (30° air direction) vs. New wide flap (20° horizontal flow). A more horizontal 20° flow is realized. Velocity 10% increase!
- Increased velocity in 2-way flow (Strongly)**
Velocity increased by making 2-way flow. Powerful airflow was realized. All-round flow vs. Two-way flow.

Things to remember when using circulation airflow

- Main points for use
- Effectiveness may differ according to room conditions, room size, and distance to walls.
 - Airflow operation differs when using the designer panel. (Operation repeatedly switches from 3-way horizontal flow to 4-way downward flow [swing] to 2-way horizontal flow to 4-way downward flow [swing].)
 - Circulation airflow functions during connection with wired remote controller. (BRC1E63). However, use is not possible for the following conditions:
 - When a sealing material of air discharge outlet and branch ducts are used;
 - When individual airflow setting is selected;
 - When using group control other than round flow.



[Table 1] Distance to wall from indoor unit

Indoor unit capacity	FXF(S)Q 25-50	FXF(S)Q 63/80	FXF(S)Q 100-140
Distance range	1.5m-4m	1.5m-5m	1.5m-7m

[Table 2] Minimum distance between indoor units

Indoor unit capacity	FXF(S)Q 25-50	FXF(S)Q 63/80	FXF(S)Q 100-140
Minimum distance	4m or more	5m or more	7m or more



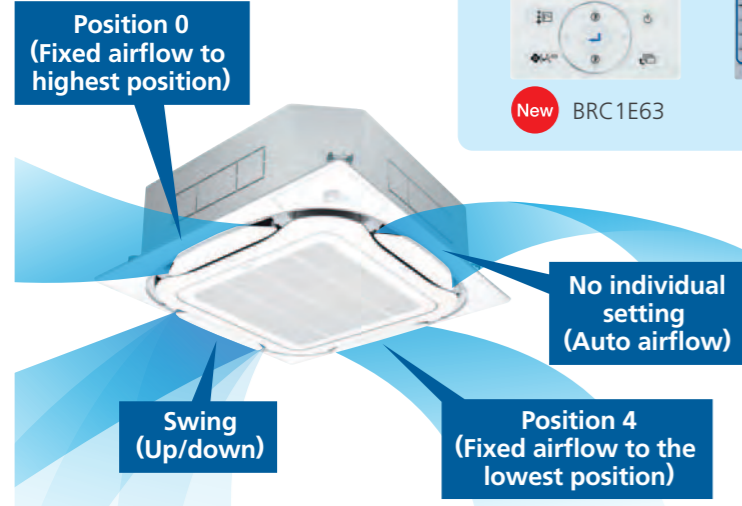
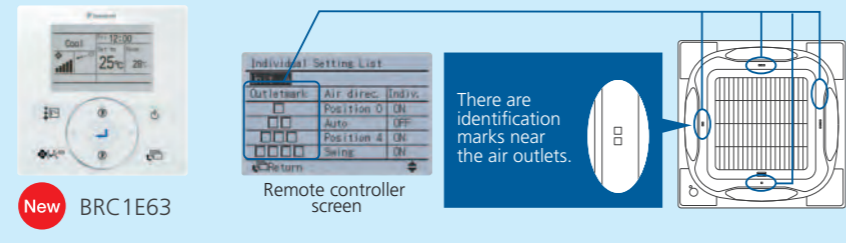
New Individual Airflow Direction Control*1

*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.



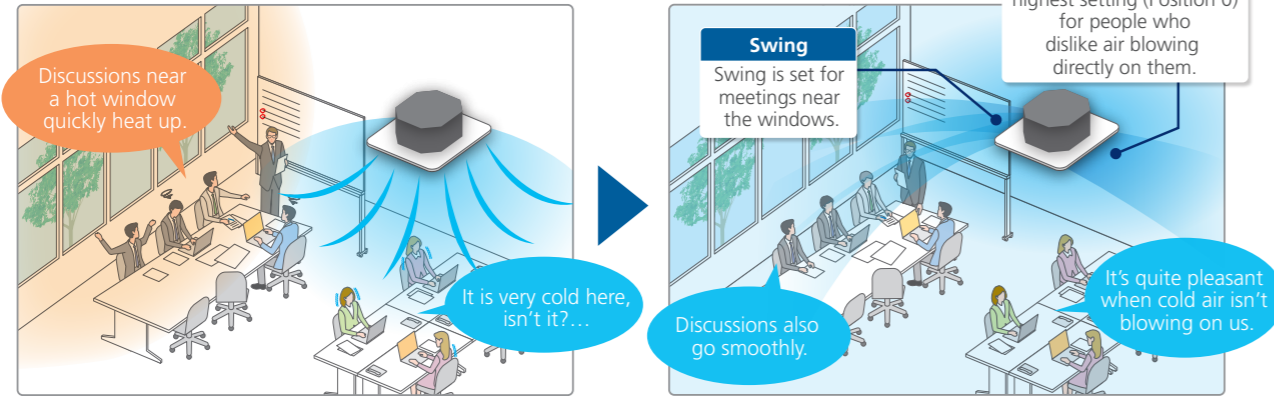
Individual airflow settings

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

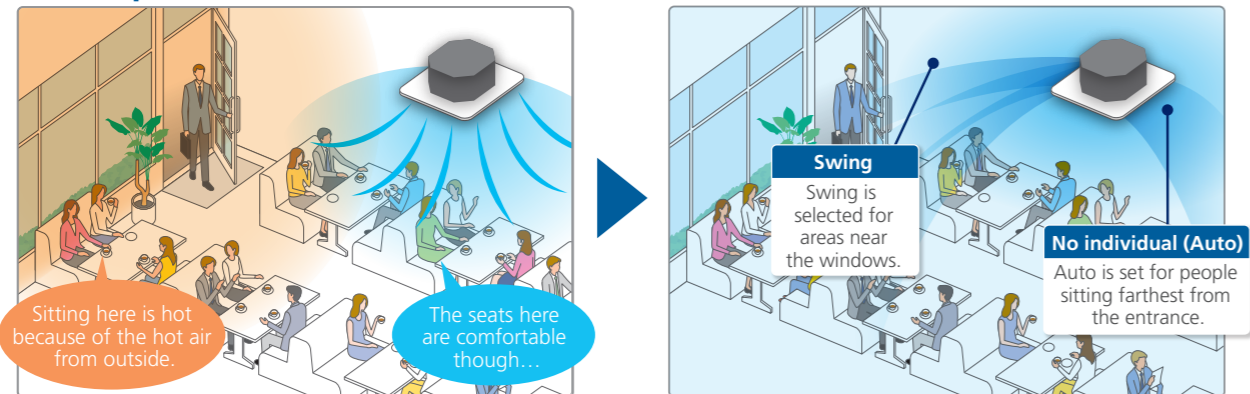
Individual settings are possible as stated above.

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

For offices



For shops and restaurant

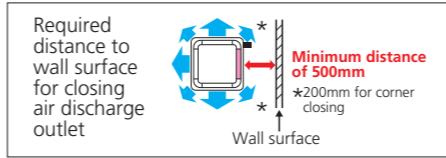
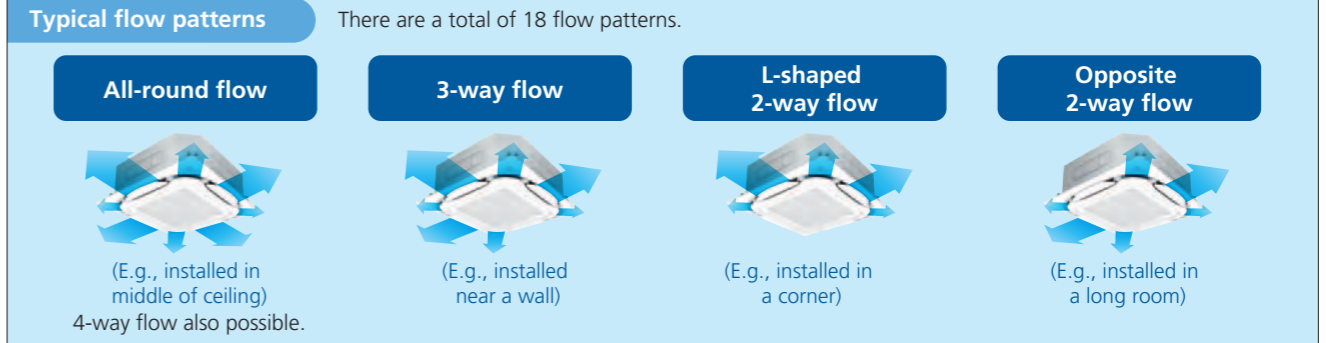


Other Functions

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.



Note:
 - Whatever the discharge direction, the same type of panel is used. In case for setting 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.		

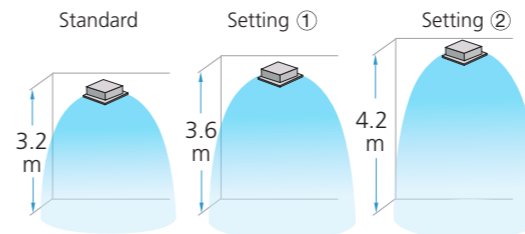
Note:
 *1. Air direction is set to the standard position when the unit is shipped from the factory. The position can be changed from the remote controller.
 *2. Closing of the corner discharge outlets is recommended.

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.



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)

Ceiling height		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
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.

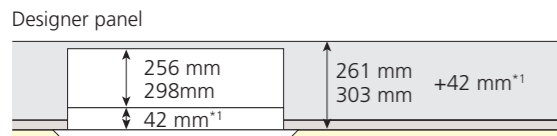
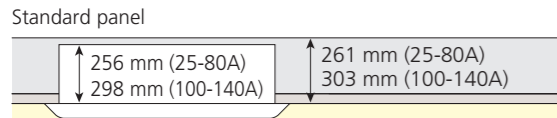


Quick and Easy Installation

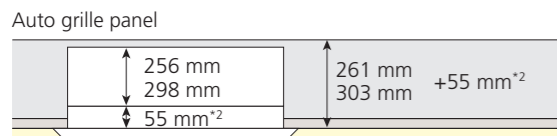
Lightweight

All models can be installed without using a lifter.

Installable in tight ceiling spaces



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



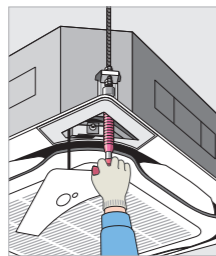
*2.Body height (ceiling required space) is 55 mm higher than standard panel.

*When the ceiling space is limited, an optional panel spacer is available. (See page 147)

Easy height adjustment

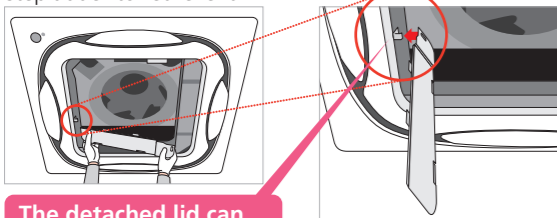
Each corner of the unit has an adjuster pocket that lets you easily adjust the unit's suspended height.

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

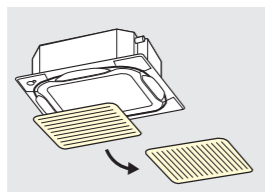
Because the control box lid can be temporarily hung on the unit, there is no need to climb down the stepladder to retrieve it.



The detached lid can be hung on a hook.

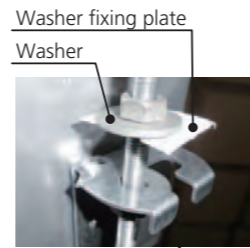
Installed in any direction

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.



Easy hanging

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



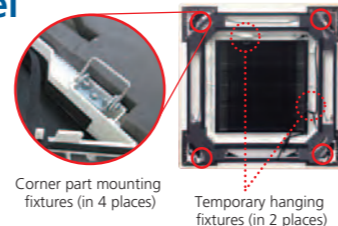
Easy removal of corner cover

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



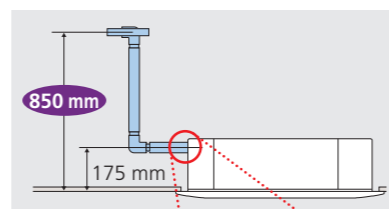
Ease in temporary hanging of decoration panel

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



Drain pump

Equipped as standard accessory with 850 mm lift.



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.

	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

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

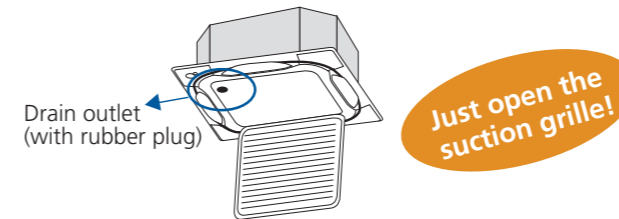
Ceiling Mounted Cassette (Round Flow) Type **New FXFQ-A**

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.



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 88.



Ultra long-life filter (option)

See page 147

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.

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

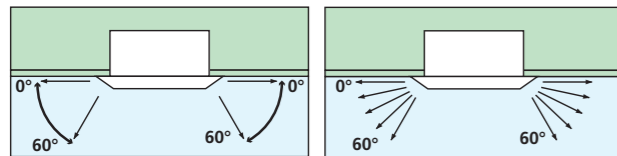
Quiet, compact, and designed for user comfort

Comfortable airflow

1 Wide discharge angle: 0° to 60°

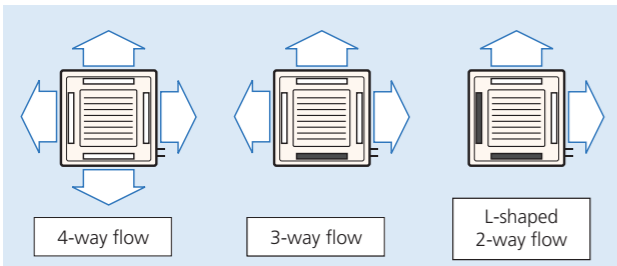
Auto swing

Fixed angles: 5 levels



*Angles can be also set on site to prevent drafts (0°-35°) or soiling of the ceiling (25°-60°), other than standard setting (0°-60°).

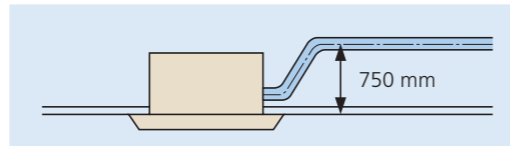
2 2-, 3-, and 4-way airflow patterns are available, enabling installation in the corner of a room.



*For 3-way or 2-way flow installation, the sealing material for air discharge outlet (option) must be used to close each unused outlet.



- Dimensions correspond with 600 mm X 600 mm architectural module ceiling design specifications.
- Low operation sound level
- Drain pump is equipped as standard accessory with 750 mm lift.



Specifications

MODEL		FXZQ20MVE	FXZQ25MVE	FXZQ32MVE	FXZQ40MVE	FXZQ50MVE
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	0.073		0.076	0.089	0.115
	Heating	0.064		0.068	0.080	0.107
Casing		Galvanised steel plate				
Airflow rate (H/L)	m ³ /min	9/7		9.5/7.5	11/8	14/10
	cfm	318/247		335/265	388/282	493/353
Sound level (H/L)	230 V	30/25		32/26	36/28	41/33
	240 V	32/26		34/28	37/29	42/35
Dimensions (HxWxD)		mm 286x575x575				
Machine weight		kg 18				
Piping connections	Liquid (Flare)	φ6.4				
	Gas (Flare)	φ12.7				
	Drain	VP20 (External Dia, 26/Internal Dia, 20)				
Panel (Option)	Model	BYFQ60B3W1				
	Colour	White (6.5Y9.5/0.5)				
	Dimensions(HxWxD)	mm 55x700x700				
	Weight	kg 2.7				

Note: Specifications are based on the following conditions;

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

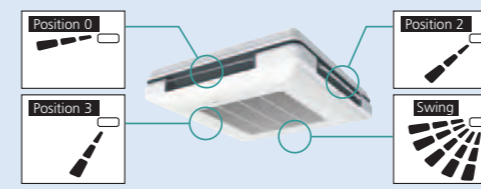
4-way Flow Ceiling Suspended Type FXUQ-A

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

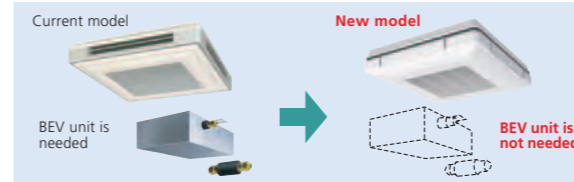


- Unit body and suction panel adopted round shapes and realised a slim appearance design. The unit can be used for various locations such as the ceilings with no cavity and bare ceilings.
- Flaps close automatically when the unit stops, which gives a simple appearance.
- Unified slim height of 198 mm 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



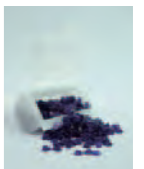
- Built-in electronic expansion valve eliminates the need for a BEV unit, which improves flexibility of installation.



- 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 and BRC2E61.
- Energy efficiency has been improved thanks to the adoption of a new heat exchanger with smaller tubes, DC fan motor and DC drain pump motor.
- Drain pump is equipped as a standard accessory, and the lift height has been improved from 500 mm to 600 mm.
- Depending on installation site requirements or room conditions, 2-way, 3-way and 4-way discharge patterns are available.



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



Specifications

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	
	Heating	kW 0.073	
Casing		Fresh white	
Airflow rate (H/M/L)	m ³ /min	22.5/19.5/16	31/26/21
	cfm	794/688/565	1,094/918/741
Sound level (H/M/L)		dB(A) 40/38/36	
Dimensions (HxWxD)		mm 198x950x950	
Machine weight		kg 26	kg 27
Piping connections	Liquid (Flare)	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.

Ceiling Mounted Cassette (Double Flow) Type

New **FXCQ-A**

Sophisticated panel design blends easily with any interior

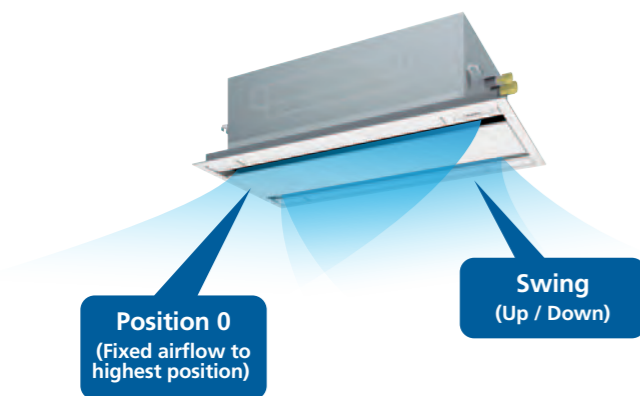


New panel design

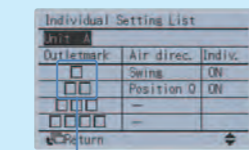
- This model features a stylish flat panel with fresh white colour for a new sophisticated appearance.
- The flat flaps close entirely when the unit is not operating and there are no air intake grilles visible.

Individual Airflow Direction Control *1

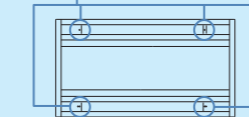
- Airflow direction can be individually adjusted for each air discharge outlet to deliver optimal air distribution.
- *1. Applicable when wired remote controller BRC1E63 is used.



Easy setting is possible with a wired remote controller.



There are identification marks near the air outlets.



Individual airflow settings

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

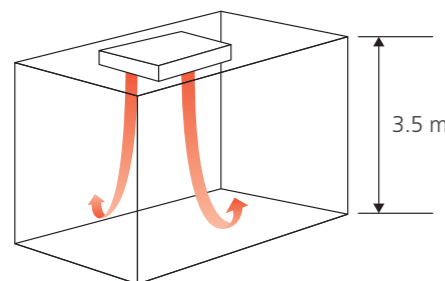
Individual settings are possible as stated above.

Switchable fan speed: 5 steps and Auto

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

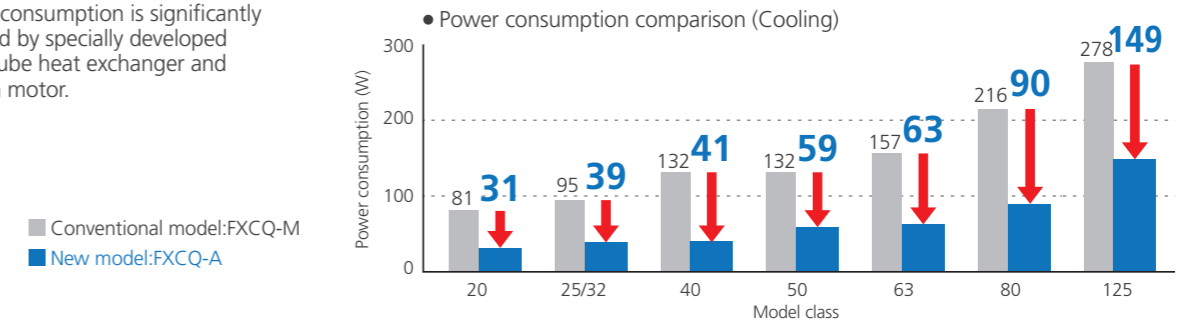
Suitable for high ceilings

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



Energy saving : Reduction of energy consumption

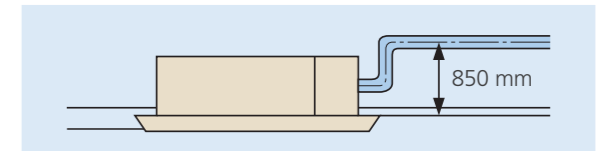
- Power consumption is significantly reduced by specially developed small tube heat exchanger and DC fan motor.



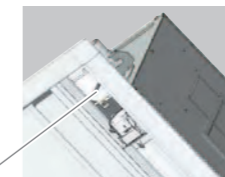
Enhanced functions from various aspects such as maintenance

- The flap parts are easy to clean because it is hard to condensate and get dirty.
- Check contamination in drain pan by simply remove suction grille and panel.
- Equipped with long life filter which requires only 1-year maintenance interval.

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



- 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

- 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 kW	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)	m ³ /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	37/33/31/28/26/25	40/37/35/30/28/26	42/38/37/33/30/28	53/49/47/41/37/33	56/53/49/44/41/40	91/84/79/74/65/63	113/101/94/88/83/79/4	
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 (HxWxD)	mm	305x775x620			305x990x620		305x1,445x620		
Machine weight	kg	19			22		25		
Piping connections	Liquid (Flare)	φ 6.4			φ 9.5				
	Gas (Flare)	φ 12.7			φ 15.9				
	Drain	VP25 (External Dia, 32/Internal Dia, 25)							
Panel (Option)	Model	BYBCQ40CF			BYBCQ63CF		BYBCQ125CF		
	Colour	Fresh white (6.5Y 9.5/0.5)							
	Dimensions (HxWxD)	55x1,070x700			55x1,285x700		55x1,740x700		
	Weight	10			11		13		

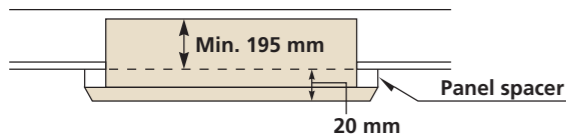
Note: Specifications are based on the following conditions;
 • Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
 • Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
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

Ceiling Mounted Cassette (Corner) Type **FXKQ-MA**

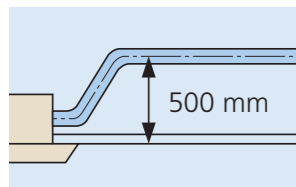
Slim design for flexible installation



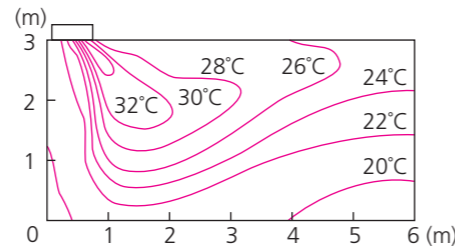
- Slim body needs only 220 mm space above the ceiling. If you use a panel spacer (option), the unit can be installed in the minimum space of 195 mm.



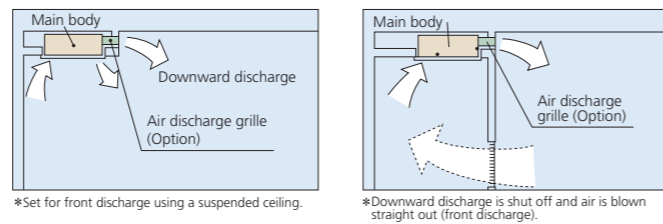
- Single-flow type allows effective air discharge from corner or from drop-ceiling.
- Drain pump is equipped as standard accessory with 500 mm lift.



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



- Front discharge is possible with an air discharge unit (option), which allows the installation in the drop-ceiling or sagging wall.



- 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

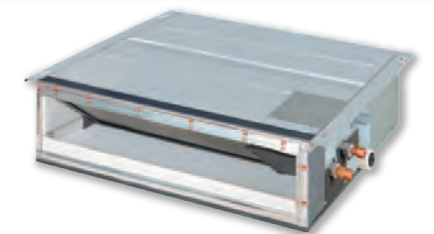
MODEL		FXKQ25MAVE	FXKQ32MAVE	FXKQ40MAVE	FXKQ63MAVE
Power supply		1-phase, 220-240 V/220 V, 50/60 Hz			
Cooling capacity	Btu/h	9,600	12,300	15,400	24,200
	kW	2.8	3.6	4.5	7.1
Heating capacity	Btu/h	10,900	13,600	17,100	27,300
	kW	3.2	4.0	5.0	8.0
Power consumption	Cooling kW	0.066		0.076	0.105
	Heating kW	0.046		0.056	0.085
Casing		Galvanised steel plate			
Airflow rate (H/L)	m ³ /min	11/9		13/10	18/15
	cfm	388/318		459/353	635/530
Sound level (H/L)	220 V	38/33		40/34	42/37
	240 V	40/35		42/36	44/39
Dimensions (HxWxD)		215x1,110x710		215x1,310x710	
Machine weight		31		34	
Piping connections	Liquid (Flare)	φ 6.4		φ 9.5	
	Gas (Flare)	φ 12.7		φ 15.9	
	Drain	VP25 (External Dia, 32/Internal Dia, 25)			
Panel (Option)	Model	BYK45FW1		BYK71FW1	
	Colour	White (10Y9/0.5)			
	Dimensions(HxWxD)	70x1,240x800		70x1,440x800	
Weight	8.5		9.5		

Note: Specifications are based on the following conditions;

- Cooling : Indoor temp. : 27°CDB, 19°CWB / inlet water temp. : 30°C, Equivalent piping length : 7.5 m, Level difference : 0 m.
- Heating : Indoor temp. : 20°CDB / inlet water temp. : 20°C, Equivalent piping length : 7.5 m, Level difference : 0 m.
- 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

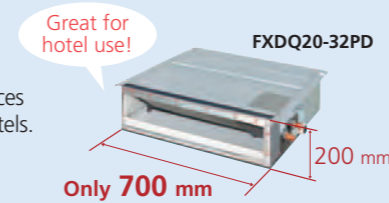
Slim Ceiling Mounted Duct Type **FXDQ-PD / ND**

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.



- 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.

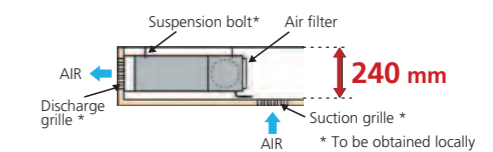
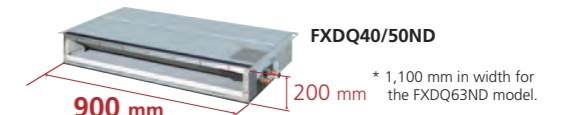
- Low operation sound level.

- 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.

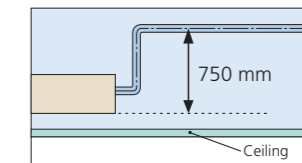


- Only 200 mm in height, this model can be installed in rooms with as little as 240 mm in height for the ceiling space between the drop-ceiling and ceiling slab.



- 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



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 kW	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 kW	0.067		0.070	0.147	0.152	0.168	
Casing		Galvanised steel plate						
Airflow rate (HH/H/L)	m ³ /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		30-10 *2		44-15 *2				
Sound level (HH/H/L) *1 *3		28/26/23		28/26/24	30/28/26	33/30/27	33/31/29	
Dimensions (HxWxD)		200x700x620		200x900x620		200x1,100x620		
Machine weight		23		27	28	31		
Piping connections	Liquid (Flare)	φ6.4		φ9.5				
	Gas (Flare)	φ12.7		φ15.9				
	Drain	VP20 (External Dia, 26/Internal Dia, 20)						

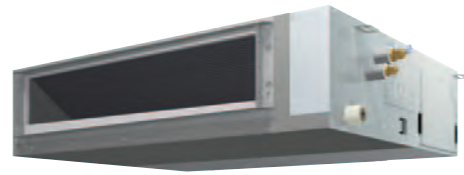
Note: Specifications are based on the following conditions;

- 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 / inlet water temp.: 20°C, 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).

Middle Static Pressure Ceiling Mounted Duct Type

New FXSQ-PA

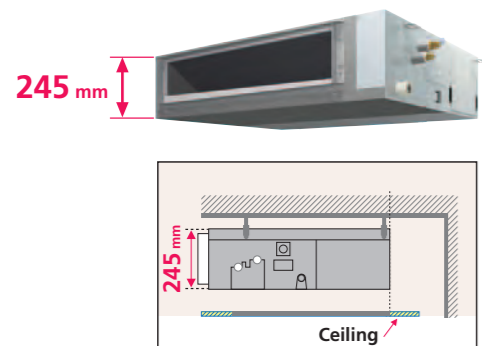
Middle external static pressure and slim design allow flexible installations



Installation flexibility

Slim design

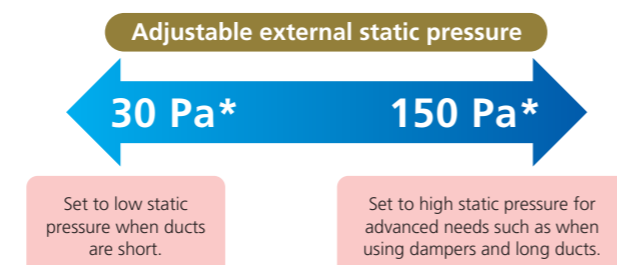
- With a height of only 245 mm, installation is possible even in buildings with narrow ceiling spaces.



Design flexibility

Adjustable external static pressure

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



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

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

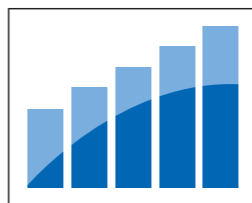
Comfort

Switchable airflow rate

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

Auto airflow rate

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

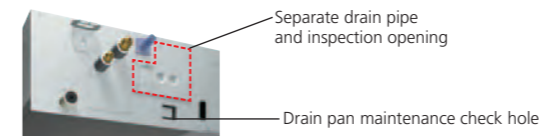


Low operation sound level

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.



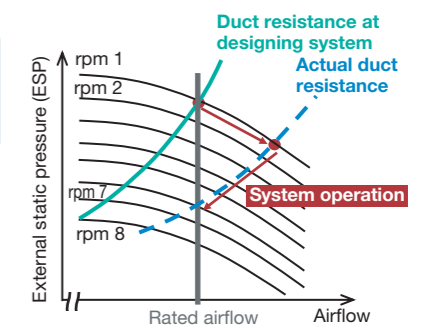
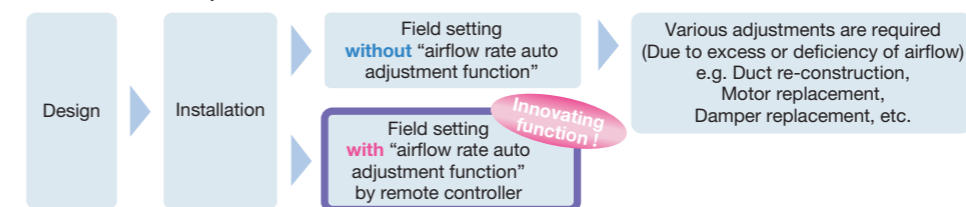
- An antibacterial treatment that uses silver ions has been applied to the drain pan, preventing the growth of slime, mould and bacteria that cause blockages and odours. (The lifespan of a silver ion cartridge depends on the usage environment, but should be changed once every two to three years.)



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.



<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
	kW	2.2	2.8	3.6	4.5
Heating capacity	Btu/h	8,500	10,900	13,600	17,100
	kW	2.5	3.2	4.0	5.0
Power consumption	Cooling kW	0.058 *		0.066 *	0.101 *
	Heating kW	0.053 *		0.061 *	0.096 *
Casing	Galvanised steel plate				
Airflow rate (H/M/L)	m ³ /min	9/7.5/6.5		9.5/8/7	15/12.5/10.5
	cfm	318/265/230		335/282/247	530/441/371
External static pressure	30-150 (50) *2				50-150 (50) *2
Sound level (H/M/L)	33/30/28		34/32/30		36/33/30
Dimensions (HxWxD)	245x550x800		245x700x800		245x1,000x800
Machine weight	25			27	35
Piping connections	Liquid (Flare)	φ 6.4			
	Gas (Flare)	φ 12.7			
	Drain	VP25 (External Dia, 32/Internal Dia, 25)			

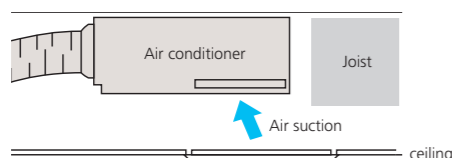
MODEL	FXSQ63PAVE	FXSQ80PAVE	FXSQ100PAVE	FXSQ125PAVE	FXSQ140PAVE
Power supply	1-phase, 220-240 V/220 V, 50/60 Hz				
Cooling capacity	Btu/h	24,200	30,700	38,200	47,800
	kW	7.1	9.0	11.2	14.0
Heating capacity	Btu/h	27,300	34,100	42,700	54,600
	kW	8.0	10.0	12.5	16.0
Power consumption	Cooling kW	0.106 *	0.126 *	0.151 *	0.206 *
	Heating kW	0.101 *	0.121 *	0.146 *	0.201 *
Casing	Galvanised steel plate				
Airflow rate (H/M/L)	m ³ /min	21/17.5/14.5	23/19.5/16	32/27/22.5	37/31.5/26
	cfm	741/618/512	812/688/565	1,130/953/794	1,306/1,112/918
External static pressure	50-150 (50) *2				50-140 (50) *2
Sound level (H/M/L)	36/32/29		37.5/34/30		39/35/32
Dimensions (HxWxD)	245x1,000x800		245x1,400x800		245x1,550x800
Machine weight	35	37	46	47	52
Piping connections	Liquid (Flare)	φ 9.5			
	Gas (Flare)	φ 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.

Bottom suction possible

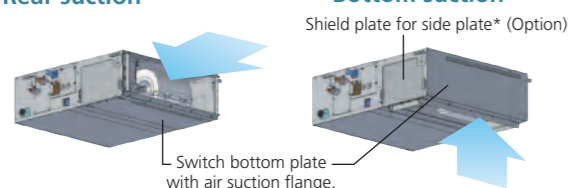
- Bottom suction is possible which facilitate installation and maintenance. Wiring connections and maintenance of control box can be done from under the unit with an optional shield plate for side plate*, extending the degree of freedom for installation in the ceiling.



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

•Rear suction

•Bottom suction



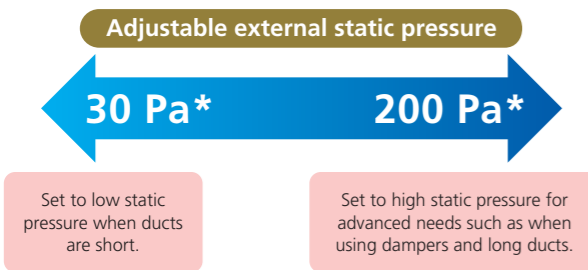
*An optional shield plate for side plate is required if wiring connections and maintenance of control box are needed from under the unit. This option is only available for FXSQ20-125PA models.

Ceiling Mounted Duct Type

New FXMQ-PA / MA

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*.

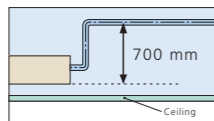


Comfortable airflow is achieved in accordance with conditions such as duct length.

- *30 Pa-100 Pa for FXMQ20P-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.

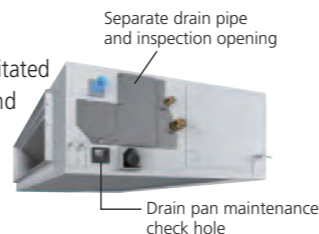
- Drain pump is equipped as standard accessory with 700 mm lift.



- 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.



- 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.)

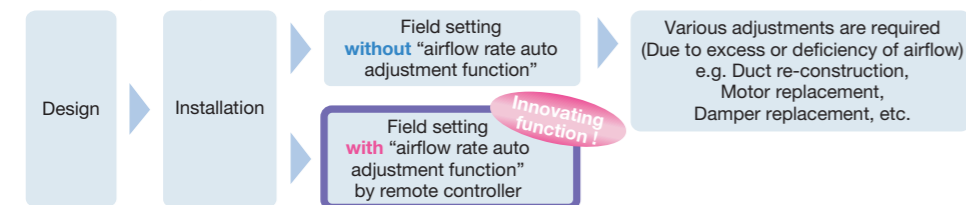


Easy installation

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

*This function is not available with FXMQ140PAVE.

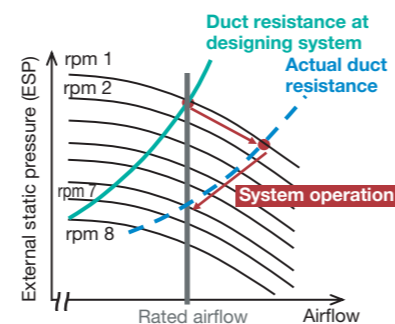
*This function can only be set via BRC1E63 and BRC2E61.



<Mechanism>

- During field setting, power input of DC fan is detected.
- 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.
- Actual duct resistance is calculated according to 1 and 2.
- 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.



FXMQ200/250MA

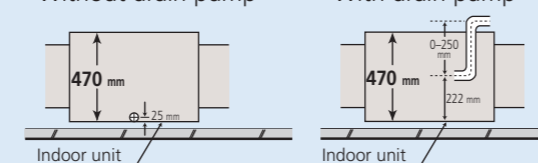
- Simplified Static Pressure Control**
External static pressure can be easily adjusted using a change-over switch inside the electrical box to meet the resistance in the duct system.

- Built-in Drain Pump (Option)**

Housing the drain pump inside the unit reduces the space required for installation.

- Without drain pump

- With drain pump



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
	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	0.056*1		0.060*1	0.151*1	0.128*1
	Heating	0.044*1		0.048*1	0.139*1	0.116*1
Casing		Galvanised steel plate				
Airflow rate (HH/H/L)	m ³ /min	9/7.5/6.5		9.5/8/7	16/13/11	18/16.5/15
	cfm	318/265/230		335/282/247	565/459/388	635/582/530
External static pressure	Pa	30-100 (50)*2			30-160 (100)*2	50-200 (100)*2
Sound level (HH/H/L)	dB(A)	33/31/29		34/32/30	39/37/35	41/39/37
Dimensions (HxWxD)	mm	300x550x700			300x700x700	300x1,000x700
Machine weight	kg	25			27	35
Piping connections	Liquid (Flare)	φ 6.4				
	Gas (Flare)	φ 12.7				
	Drain	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
	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	0.138*1	0.185*1	0.215*1	0.284*1	0.405*1
	Heating	0.127*1	0.173*1	0.203*1	0.272*1	0.380*1
Casing		Galvanised steel plate				
Airflow rate (HH/H/L)	m ³ /min	19.5/17.5/16	25/22.5/20	32/27/23	39/33/28	46/39/32
	cfm	688/618/565	883/794/706	1,130/953/812	1,377/1,165/988	1,624/1,377/1,130
External static pressure	Pa	50-200 (100)*2			44/42/40	50-140 (100)*2
Sound level (HH/H/L)	dB(A)	42/40/38		43/41/39	44/42/40	46/45/43
Dimensions (HxWxD)	mm	300x1,000x700			300x1,400x700	
Machine weight	kg	35			45	46
Piping connections	Liquid (Flare)	φ 9.5				
	Gas (Flare)	φ 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.

*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		FXMQ200MAVE	FXMQ250MAVE
Power supply		1-phase, 220-240 V/220 V, 50/60 Hz	
Cooling capacity	Btu/h	76,400	95,500
	kW	22.4	28.0
Heating capacity	Btu/h	85,300	107,500
	kW	25.0	31.5
Power consumption	Cooling	1.294*1	1.465*1
	Heating	1.294*1	1.465*1
Casing		Galvanised steel plate	
Airflow rate (H/L)	m ³ /min	58/50	72/62
	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	48/45	
	240 V	49/46	
Dimensions (HxWxD)	mm	470x1,380x1,100	
Machine weight	kg	137	
Piping connections	Liquid (Flare)	φ 9.5	
	Gas (Brazing)	φ 19.1	φ 22.2
	Drain	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.

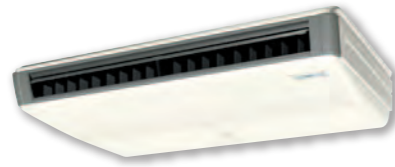
*2: External static pressure is changeable to change over the connectors inside electrical box, this pressure means "Standard-High static pressure".

Ceiling Suspended Type

New FXHQ-MA / A

Slim body with quiet and wide airflow

FXHQ32 / 63 / 100MA



New FXHQ125 / 140A



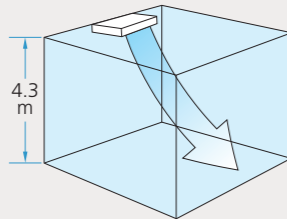
New 125 / 140 models provide greater capacity for large spaces

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

• Sophisticated design
• Flap neatly closes when not in use.



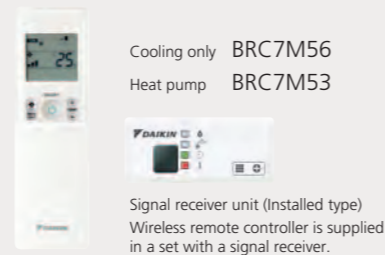
• Suitable for high ceilings



• 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.

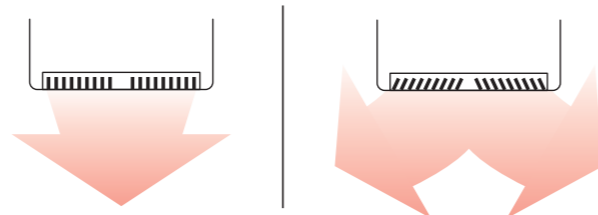


• Switchable fan speed: 3 steps
• Control of airflow rate has been improved from 2-step to 3-step.

Comfort

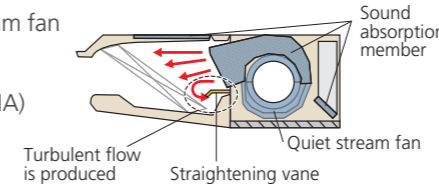
• Auto swing (up and down) and louvres (left and right by hand) bring comfort to the room.

• Louvre manually adjusts for straight or wide angle airflow.



Quiet operation

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



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

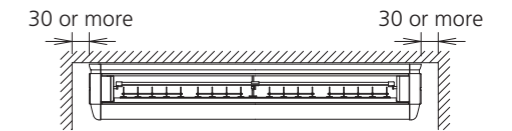
- Non-dew flap
• Condensation does not easily form on and dirt does not cling to non-dew flap. It is easy to clean.
- Easy-clean, flat surfaces
• It is easy to wipe dirt off the flat side and lower surfaces of the unit.
- Oil-resistant plastic is used for the air suction grille. This satisfies durability in restaurants and other similar environments.



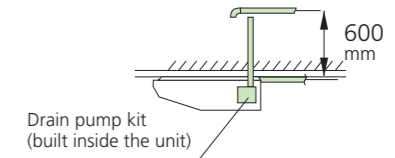
Note: Intended for use in salons, dining rooms, and ordinary sales floors, this specification is not suitable for kitchens or other harsh environments.

Installation flexibility

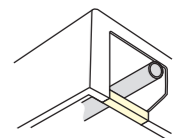
- Flexible installation
• The unit fits more snugly into tight spaces. [Required installation space (mm)]
- Drain pump kit (option) can be easily incorporated.
- Drain pipe connection can be done inside the unit. Refrigerant and drain pipe outlets are at the same opening.



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



- DIII-NET communication standard
• Connection to a centralised control system is available, no need for option card.
- All wiring and internal servicing can be done from under the unit.
- Easier piping work for rear side by removable frame



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
	Heating	kW		0.111	0.115	0.135
Casing		Sheet Metal / White (10Y9/0.5)			Sheet Metal / White	
Airflow rate (H/M/L)	m ³ /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 (HxWxD)	mm	195x960x680	195x1,160x680	195x1,400x680	235x1,590x690	
Machine weight	kg	24	28	33	41	
Piping connections	Liquid (Flare)	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.

Wall Mounted Type

New 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 louvre closes automatically when the unit stops.
- Enhanced comfort is achieved.
- 5 step discharge angles can be set by remote controller.
- Discharge angle is automatically set at the same angle as previous operation when restart.



MODEL		FXAQ20A	FXAQ25A	FXAQ32A	FXAQ40A	FXAQ50A	FXAQ63A
Airflow rate	H	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

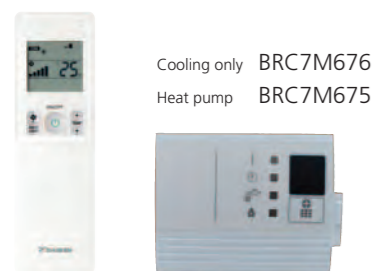
Lower sound level

- 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.

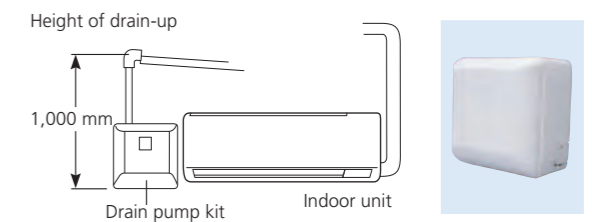


MODEL		FXAQ20A	FXAQ25A	FXAQ32A	FXAQ40A	FXAQ50A	FXAQ63A
Sound level	H	33.0	35.0	37.5	37.0	41.0	46.5
	L	28.5	28.5	28.5	33.5	35.5	38.5

- 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.

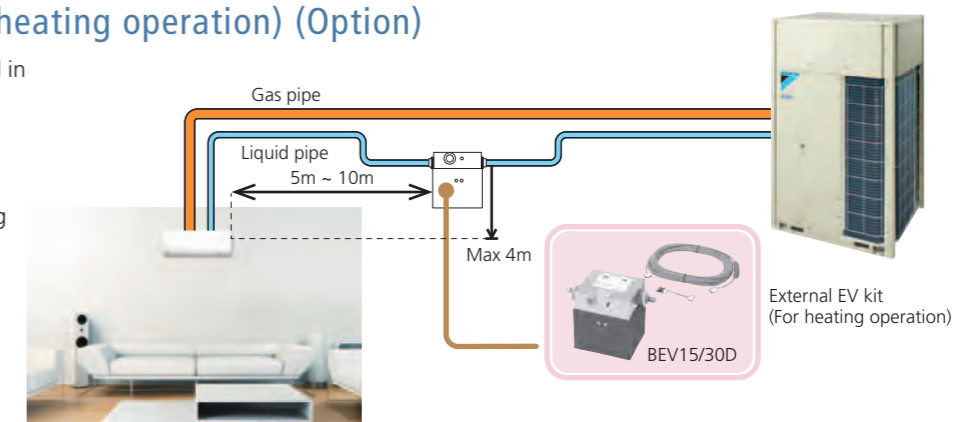
- Flexible installation
 - Drain pipe can be fitted from either left or right sides.

- Drain pump kit is available as optional accessory, which lifts the drain 1,000 mm from the bottom of the unit.



External EV kit (For heating operation) (Option)

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



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

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	0.040	0.040	0.040	0.050	0.060	0.100
	Heating	0.050	0.040	0.050	0.050	0.070	0.110
Casing		Resin / White N9.5					
Airflow rate (H/L)	m ³ /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	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 (HxWxD)	mm	290x795x266			290x1,050x269		
Machine weight	kg	12			15		
Piping connections	Liquid (Flare)	φ 6.4					φ 9.5
	Gas (Flange)	φ 12.7					φ 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, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Floor Standing Type

FXLQ-MA

Suitable for perimeter zone air conditioning

- Floor Standing types can be hung on the wall for easier cleaning. Running the piping from the back allows the unit to be hung on walls. Cleaning under the unit, where dust tends to accumulate, is considerably easier.
- The adoption of a fibre-less discharge grille featuring an original design to prevent condensation also helps prevent staining and makes cleaning easier.



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

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)	m ³ /min	7/6		8/6		11/8.5	
	cfm	247/212		282/212		388/300	
Sound level (H/L)	220 V	35/32		38/33		39/34	
	240 V	37/34		40/35		41/36	
Dimensions (HxWxD)	mm	600x1,000x222		600x1,140x222		600x1,420x222	
Machine weight	kg	25		30		36	
Piping connections	Liquid (Flare)			φ 6.4		φ 9.5	
	Gas (Flare)			φ 12.7		φ 15.9	
	Drain	210.D.					

Note: Specifications are based on the following conditions;

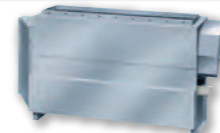
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity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



- 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		Galvanized steel plate					
Airflow rate (H/L)	m ³ /min	7/6		8/6		11/8.5	
	cfm	247/212		282/212		388/300	
Sound level (H/L)	220 V	35/32		38/33		39/34	
	240 V	37/34		40/35		41/36	
Dimensions (HxWxD)	mm	610x930x220		610x1,070x220		610x1,350x220	
Machine weight	kg	19		23		27	
Piping connections	Liquid (Flare)			φ 6.4		φ 9.5	
	Gas (Flare)			φ 12.7		φ 15.9	
	Drain	210.D.					

Note: Specifications are based on the following conditions;

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

Floor Standing Duct Type

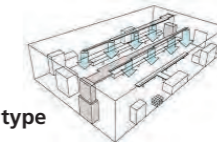
FXVQ-N

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

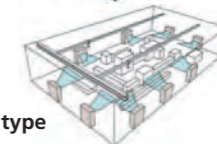
- Large airflow type that fits for spacious areas such as factories and large stores.
- Various installations can be supported from full-scale duct connection airflow to direct airflow that allows for easy installation.
- Full-scale duct connection airflow allows for air conditioning evenly in spacious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



Duct connection airflow type



Direct airflow type



- Adding the plenum chamber (option) allows for simple operation with direct airflow.
* Note that the operation sound increases by approximately 5 dB(A).

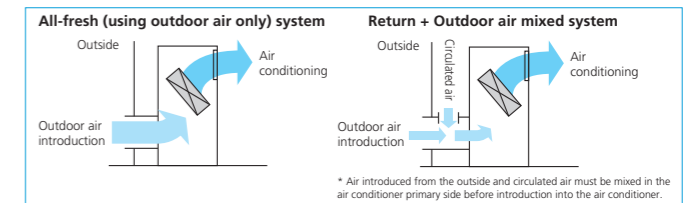
- The high static pressure type driven by the belt drive system allows for use of air discharge outlets in various shapes as well as long ducts. Highly flexible installation is possible.

- Design with high maintainability that allows major services and maintenance services to be performed at the front.

- A long-life filter (maintenance free up to one year*) is equipped as a standard accessory.
* 8 hr/day, 26 day/month. For dust concentration of 0.15 mg/m³

- A wide range of optional accessories are available such as high-efficiency filters.
- Outdoor air intake mode is useable as an outdoor-air processing air conditioner.

*When using the unit as an outdoor-air processing unit, there are some restrictions. Strictly follow the restrictions specified in the Engineering Data Book.



Specifications

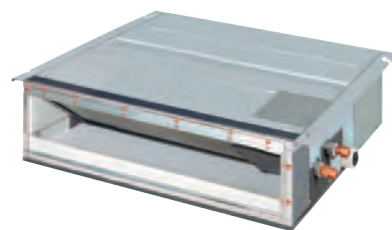
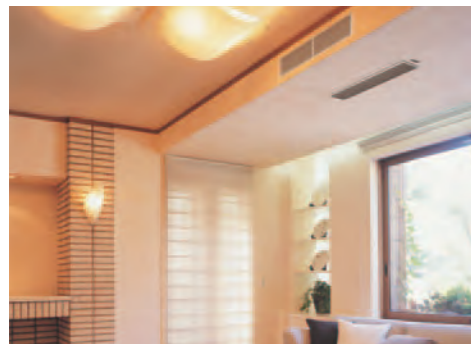
MODEL		FXVQ125NY1	FXVQ200NY1	FXVQ250NY1	FXVQ400NY1	FXVQ500NY1	FXVQ500NY16	
Power supply		3-phase 4-wire system, 380-415 V, 50 Hz						
Cooling capacity	Btu/h	47,800	76,400	95,500	154,000	191,000		
	kW	14.0	22.4	28.0	45.0	56.0		
Heating capacity	Btu/h	54,600	85,300	107,500	171,000	215,000		
	kW	16.0	25.0	31.5	50.0	63.0		
Power consumption	Cooling kW	0.53	1.33	1.61	3.97	2.62	4.70	
	Heating kW	0.53	1.33	1.61	3.97	2.62	4.70	
Casing		Ivory white (5Y7.5/1)						
Dimensions (HxWxD)	mm	1,670x750x510	1,670x950x510	1,670x1,170x510	1,900x1,170x720	1,900x1,470x720		
Machine weight	kg	118	144	169	236	281	306	
Sound level *1	dB(A)	52	56	60	65	62	66	
Piping connections	Liquid	φ 9.5 (Brazing)			φ 12.7 (Brazing)		φ 15.9 (Brazing)	
	Gas	φ 15.9 (Brazing)		φ 19.1 (Brazing)	φ 22.2 (Brazing)	φ 28.6 (Brazing)		
	Drain	Rp1 (PS 1B internal thread)						
Air filter	Type	Long-life filter (anti-mould resin net)						
Fan	Motor output	0.75		1.5		3.7		
	Airflow rate	m ³ /min	43	69	86	134	165	172
		cfm	1,518	2,436	3,036	4,730	5,825	6,072
	External static pressure *2	Pa	152	217	281	420	142	390
	Drive system	Belt drive system						

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

Slim Ceiling Mounted Duct Type

CDXS-EA/FDXS-C

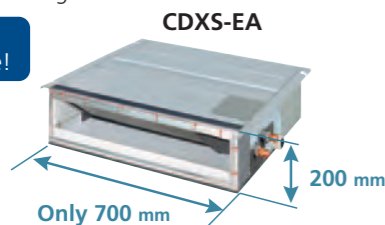


Standard accessory
Note: Remote controllers other than the standard accessory wireless remote controller cannot be used.

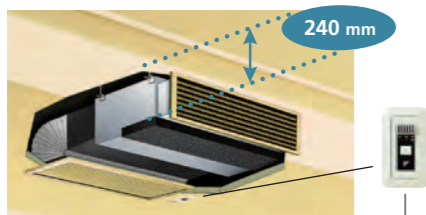
Slim and smooth design suits your shallow ceiling

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.

Great for hotel use!



	CDXS25EA	CDXS35EA	FDXS25C	FDXS35C
Dimensions (HxWxD)	200 x 700 x 620 mm		200 x 900 x 620 mm	
Weight	21 kg		25 kg	
Airflow rate (H)	8.7 m ³ /min	9.5 m ³ /min	10 m ³ /min	
External static pressure	30 Pa		40 Pa	



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

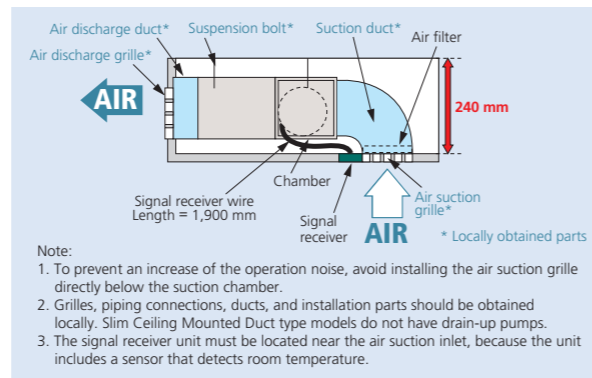
Low operation sound level (H/L/SL)(dB(A))

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

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 set to 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 by using the remote controller when going to sleep or leaving the house, and after waking up or returning home.



Specifications

MODEL	CDXS25EAVMA	CDXS35EAVMA	FDXS25CVMA	FDXS35CVMA	FDXS50CVMA	FDXS60CVMA
Power supply	1-phase, 220-240 V/220-230 V, 50/60 Hz					
Airflow rates (H)	8.7 (307)		9.5 (335)	10.0 (353)	12.0 (424)	16.0 (565)
Sound levels (H/L/SL)*	35/31/29		37/33/31		38/34/32	
Fan speed	5 steps, quiet and automatic					
Temperature control	Microcomputer control					
Dimensions (HxWxD)	200x700x620		200x900x620		200x1,100x620	
Machine weight	21		25		30	
Piping connections	Liquid (Flare)	φ6.4				
	Gas (Flare)	φ9.5				φ12.7
	Drain	VP20 (External Dia. 26/Internal Dia. 20)				
Heat insulation	Both liquid and gas pipes					
External static pressure	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

FTXJ-N



Elegant appearance with European style

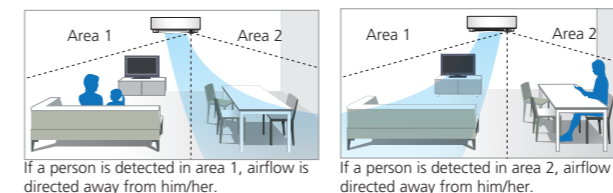
Elegant Appearance with Curved Panel

The sleek design of the FTXJ-N indoor unit features a uniquely European style. This elegant body houses state-of-the-art technology which delivers superior performance. The FTXJ-N series offers a versatile choice for home-owners, designers and architects alike.



Two-Area Intelligent Eye

A combination of Comfort Airflow Mode and Intelligent Eye directs airflow away from people to avoid drafts. If there is no movement in a room for 20 minutes, Intelligent Eye automatically adjusts the set temperature by approximately 2°C to save energy.



If a person is detected in area 1, airflow is directed away from him/her.

If a person is detected in area 2, airflow is directed away from him/her.

Specifications

MODEL	FTXJ25NVMVW	FTXJ25NVMVS	FTXJ35NVMVW	FTXJ35NVMVS	FTXJ50NVMVW	FTXJ50NVMVS
Power supply	1-phase, 220-240 V/220-230 V, 50/60 Hz					
Front panel colour	White	Silver	White	Silver	White	Silver
Airflow rate (H)	Cooling	8.3 (293)		10.6 (374)		10.8 (381)
	Heating	10.4 (367)		11.9 (420)		12.4 (438)
Sound level (H/L/SL)	Cooling	38/25/19		45/26/20		46/35/32
	Heating	41/28/19		45/29/20		47/35/32
Fan speed	5 steps, quiet and automatic					
Temperature control	Microcomputer control					
Dimensions (HxWxD)	303x998x212					
Machine weight	12					
Piping connections	Liquid (Flare)	φ6.4				
	Gas (Flare)	φ9.5				φ12.7
	Drain	φ18.0				
Heat insulation	Both liquid and gas pipes					



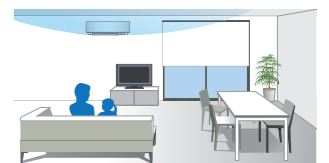
Standard accessory*



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

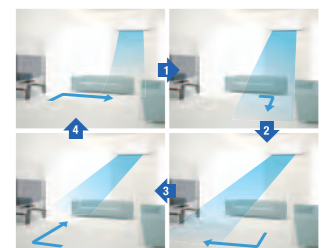
Comfort Airflow Mode

Comfort Airflow Mode prevents uncomfortable drafts from blowing directly on to a person's body. During cooling operation, the flap moves upwards to prevent cold drafts. During heating operation, the flap turns vertically downwards to drive warm air to the floor.



3D Airflow

3D Airflow combines Vertical and Horizontal Auto-Swing to reduce indoor temperature fluctuation. This function circulates air to every part of a room for uniform cooling or heating of even large spaces. To start 3D Airflow, push both the Vertical and Horizontal Auto-Swing buttons. The flaps and louvres swing in turn.



The flaps and louvres swing in turn, expanding the comfort zone.

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)(dB(A))

FTXS20/25	FTXS35	FTXS50	FTXS60	FTXS71
37/25/22	39/26/23	43/34/31	45/36/33	46/37/34

•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.

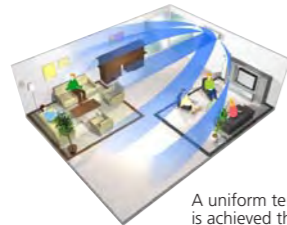


When you are in the room



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.

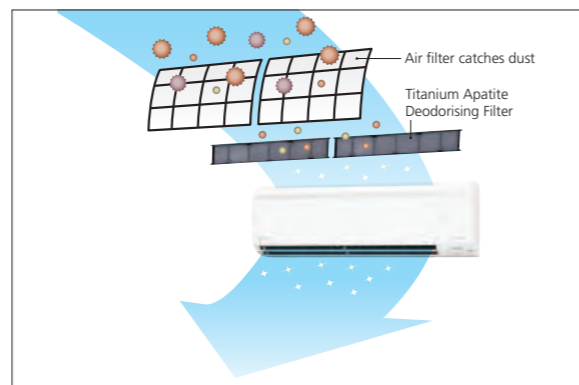


A uniform temperature is achieved throughout the entire room.

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

•Titanium Apatite Deodorising Filter

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

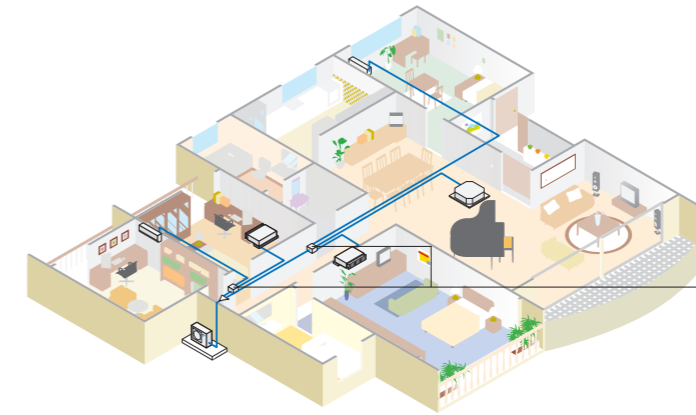


This filter is not a medical device. Benefits such as the adsorption of odours and allergens and deodorisation of odours are only effective for substances which are directly attached to the Titanium Apatite Deodorising Filter.

Specifications

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	8.7 (307)	8.9 (314)	14.7 (519)	16.2 (572)	17.4 (614)	17.4 (614)
	Heating	9.4 (332)	9.7 (342)	16.2 (572)	17.4 (614)	21.5 (759)	21.5 (759)
Sound levels (H/L/SL)	Cooling	37/25/22	38/26/23	44/35/32	45/36/33	46/37/34	46/37/34
	Heating	37/28/25	38/29/26	42/33/30	44/35/32	46/37/34	46/37/34
Fan speed		5 steps, quiet and automatic					
Temperature control		Microcomputer control					
Dimensions (HxWxD)		283x800x195			290x1,050x238		
Machine weight		9			12		
Piping connections	Liquid (Flare)	φ 6.4					
	Gas (Flare)	φ 9.5		φ 12.7		φ 15.9	
	Drain	φ 18.0					
Heat insulation		Both liquid and gas pipes					

BP Units for Connection to Residential Indoor Units



The BP units can be installed inside the ceiling.

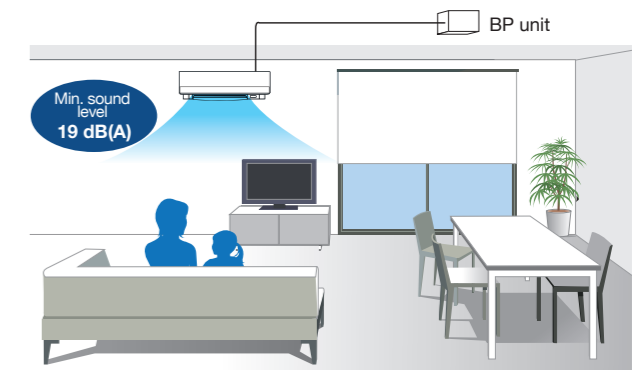
Connectable to Residential Indoor Units

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

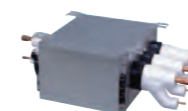


Quiet Operating Sound

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 19 dB(A). Together these features ensure your system continues to operate as quietly as possible.



Specifications



BPMKS967A3



BPMKS967A2

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	
Running current		A	
Dimensions (HxWxD)		mm	
Machine weight		kg	
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	φ 9.5X1	
	Gas	φ 6.4X3	φ 6.4X2
Heat insulation	Main Branch	φ 19.1X1	
	Branch	φ 15.9X3	φ 15.9X2
Connectable indoor units		2.0 kW class to 7.1 kW class	
Min. rated capacity of connectable indoor units		kW	
Max. rated capacity of connectable indoor units		kW	

Note: * Total auxiliary piping length.

BS Units for Heat Recovery

Specifications — Individual BS Unit



MODEL		BSQ100AV1	BSQ160AV1	BSQ250AV1	
Power supply		1-phase, 220-240 V, 50 Hz			
No. of branches		1			
Total capacity index of connectable indoor units		20 to 100	More than 100 but 160 or less	More than 160 but 250 or less	
No. of connectable indoor units		Max. 5	Max. 8	Max. 8	
Casing		Galvanised steel plate			
Dimensions (H×W×D)		mm 207×388×326			
Piping connections	Indoor Unit	Liquid	mm φ9.5 (Brazing) ★ ¹	φ9.5 (Brazing)	φ9.5 (Brazing)
		Gas	mm φ15.9 (Brazing) ★ ¹	φ15.9 (Brazing) ★ ²	φ22.2 (Brazing) ★ ³
	Outdoor Unit	Liquid	mm φ9.5 (Brazing)	φ9.5 (Brazing)	φ9.5 (Brazing)
		Suction gas	mm φ15.9 (Brazing)	φ15.9 (Brazing) ★ ²	φ22.2 (Brazing) ★ ³
	High and low pressure gas	mm φ12.7 (Brazing)	φ12.7 (Brazing) ★ ²	φ19.1 (Brazing) ★ ³	
Machine weight		kg 11	11	14	
Sound level		dB(A) 35(40) ★ ⁴	41(45) ★ ⁴	41(45) ★ ⁴	

- Note: ★¹ When connecting with an indoor unit with a capacity index between 20 and 50, connect the attached pipe to the field pipe. (Brazing connection between the attached and field pipe.)
- ★² When connecting with indoor units with total capacity indexes 150 or more and 160 or less, connect the attached pipe to the field pipe. (Brazing connection between the attached and field pipe.)
- ★³ When connecting with indoor units with a capacity index of 200, or with total capacity indexes more than 160 and less than 200, connect the attached pipe to the field pipe. (Brazing connection between the attached and field pipe.)
- ★⁴ Figures in brackets () indicate maximum value of transient sound (the change of cooling and heating).
- Do not install at the place such as bedroom. Small sound of refrigerant will be made, which may be disturbing.

Specifications — Centralised BS Unit



4 branch

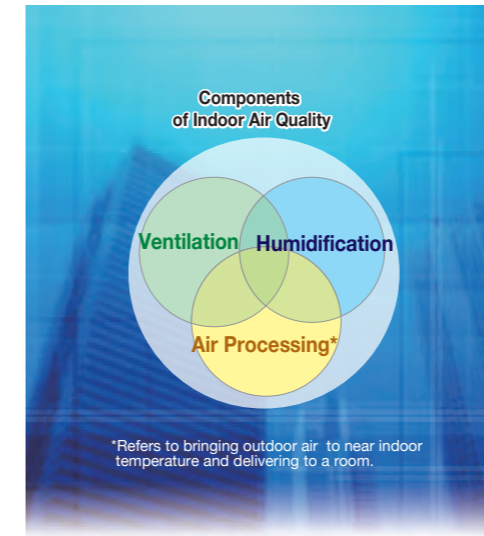


16 branch

MODEL		BS4Q14AV1	BS6Q14AV1	BS8Q14AV1	BS10Q14AV1	BS12Q14AV1	BS16Q14AV1	
Power supply		1-phase, 220-240 V, 50 Hz						
No. of branches		4	6	8	10	12	16	
Capacity index of connectable indoor units of branch		Max. 140						
Capacity index of connectable indoor units		Max. 400	Max. 600	Max. 750				
No. of connectable indoor units per branch		5						
Casing		Galvanised steel plate						
Dimensions (H×W×D)		mm 298×370×430	298×580×430	298×820×430		298×1060×430		
Piping connections	Indoor Unit	Liquid	mm φ9.5, φ6.4 Brazing ★ ¹					
		Gas	mm φ15.9, φ12.7 Brazing ★ ¹					
	Outdoor Unit	Liquid	φ9.5 Brazing ★ ²	φ12.7 Brazing ★ ²	φ12.7 Brazing (φ15.9) ★ ²	φ15.9 Brazing ★ ²	φ15.9 Brazing (φ19.1) ★ ²	φ19.1 Brazing ★ ²
		Suction gas	φ22.2 Brazing (φ19.1) ★ ²	φ28.6 Brazing ★ ²		φ28.6 Brazing (φ34.9) ★ ²		φ34.9 Brazing ★ ²
	High and low pressure gas	φ19.1 Brazing (φ15.9) ★ ²	φ19.1 Brazing (φ22.2) ★ ²	φ19.1 Brazing (φ22.2, 28.6) ★ ²	φ28.6 Brazing ★ ²			
Machine weight		kg 17	24	26	35	38	50	
Sound level		dB(A) 38(45) ★ ³	39(47) ★ ³		40(48) ★ ³		41(49) ★ ³	
Drain pipe size		mm VP20 (External Dia, 26/Internal Dia, 20)						

- Note: ★¹ When connecting with an indoor unit with a capacity index between 20 and 50, connect the attached pipe to the field pipe. (Brazing connection between the attached and field pipe.) In case of others, cut the outlet pipe and connect to the connecting pipe.
- ★² Reducer may be required (obtain locally) if joint diameter does not fit on the triple piping side. Figures in brackets () is the size when using the attached reducer. Insulators are necessary (obtain locally) for piping connections on the outdoor unit side.
- ★³ Figures in brackets () indicate maximum value of transient sound (the change of cooling and heating).
- Must be installed in locations where the noise generated by the BS unit does not cause any problem.

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



A recent trend rapidly gaining popularity is for air treatment to be required as well as air conditioning.

Daikin's Outdoor-Air Processing Unit can combine fresh air treatment and air conditioning, supplied from a single system. It adjusts the temperature of air from outdoors using a fixed discharge temperature control. Along with Outdoor-Air Processing Units, we also offer Heat Reclaim Ventilator systems.

The Heat Reclaim Ventilator VAM-GJ series units in particular have been praised for their compactness, energy conservation and extensive operation range of outdoor temperatures. This series provides higher enthalpy efficiency★¹, due to the greatly enhanced performance of the thin film element. Furthermore, improved external static pressure★² offers more flexibility for installation.

The Heat Reclaim Ventilator VKM-GAM series units, equipped with a DX-coil and a humidifier, provide further advanced features, such as temperature adjustment to suit conditions indoors and to prevent cold air from blowing on people directly during heating operation. The series also realises significant energy savings by exercising heat recovery.

- ★¹ For models: VAM150/250/350/650/800/1000/2000GJVE
- ★² For models: VAM150/350/500GJVE

		Outdoor-Air Processing Unit	Heat Reclaim Ventilator		
			VKM-GAM Type	VKM-GA Type	VAM-GJ Type
Connections with VRV system	Refrigerant Piping	Connectable	Connectable	Not connectable	
	Wiring	Connectable	Connectable		
	After-cool & After-heat Control	Available	Available		
Heat Exchange Element		—	Energy savings obtained		Energy savings obtained
Humidifier		—	Fitted	—	—
High Efficiency Filter		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				150 m ³ /h	250 m ³ /h
				350 m ³ /h	500 m ³ /h
			500 m ³ /h	650 m ³ /h	800 m ³ /h
			800 m ³ /h	1000 m ³ /h	1500 m ³ /h
		1080 m ³ /h	1680 m ³ /h	2100 m ³ /h	2000 m ³ /h

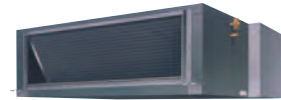
*Refers to bringing outdoor air to near indoor temperature and delivering to a room.

Outdoor-Air Processing Unit

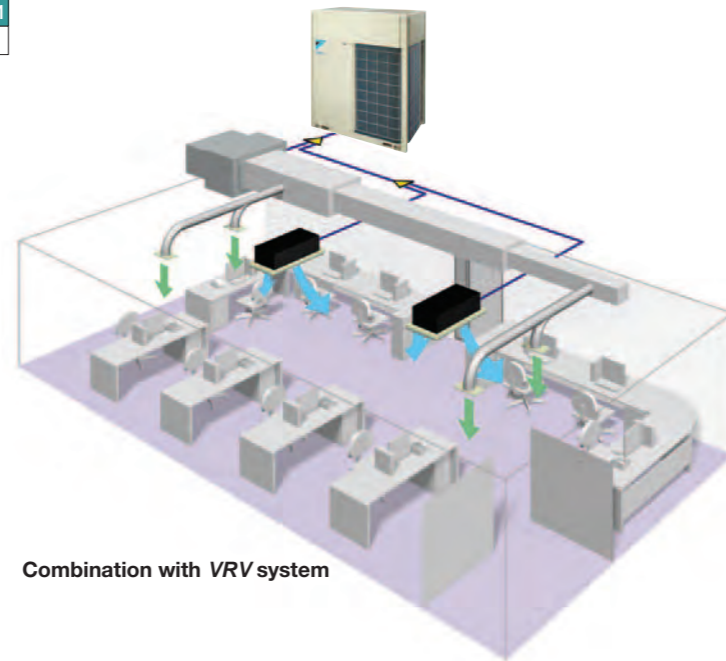
Combine fresh air treatment and air conditioning, supplied from a single system.

Lineup

Model Name	FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1
Capacity Index	125	200	250

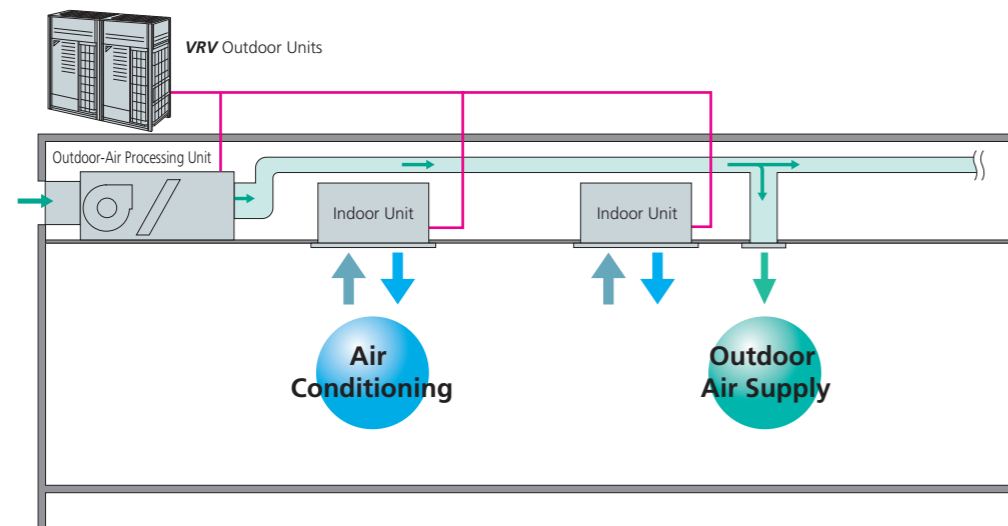


Fresh air treatment and air conditioning can be achieved with a single system by using heat pump technology—without the usual troublesome air supply and air discharge balance design. Fan coil units for air conditioning and an outdoor-air processing unit can be connected to the same refrigerant line.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



Connection Conditions

The following restrictions must be observed in order to maintain the indoor units connected to the same system.

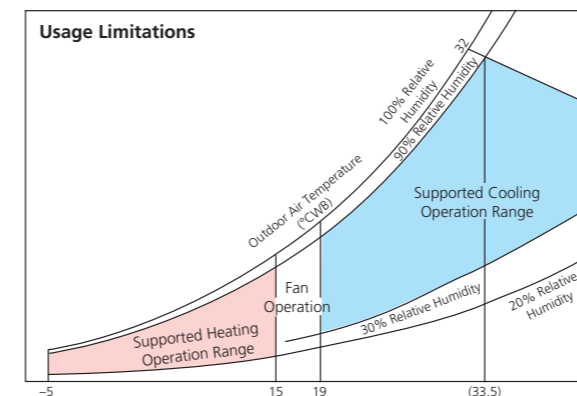
- When outdoor-air processing units are connected, the total connection capacity index must be 50% to 100% of the capacity index of the outdoor units.
- When outdoor-air processing units and standard indoor units are connected, the total connection capacity index of the outdoor-air processing units must 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 m ³ /h
FXMQ200MFV1	1,680 m ³ /h
FXMQ250MFV1	2,100 m ³ /h

- Optional equipment includes long-life filters.
- Compatible with outdoor temperatures from -5°C to 43°C.



- 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.



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

- * Group control is not possible between this unit and standard type indoor units. Remote controllers connect to each unit separately.

- 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.



DCS302CA61
Central remote controller (option)

- * 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.

- 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)		470X744X1,100		470X1,380X1,100
Fan	Motor output	0.380 kW		
	Airflow rate	m ³ /min	18	28
		cfm	635	988
External static pressure	220 V/240 V	Pa	185/225	225/275
Air filter		*2		
Refrigerant piping	Liquid	φ 9.5 (flare)		
	Gas	φ 15.9 (flare)	φ 19.1 (brazing)	φ 22.2 (brazing)
	Drain	PS1B female thread		
Machine weight	kg	86	123	
Sound level *3	220 V/240 V	dB(A)		42/43
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

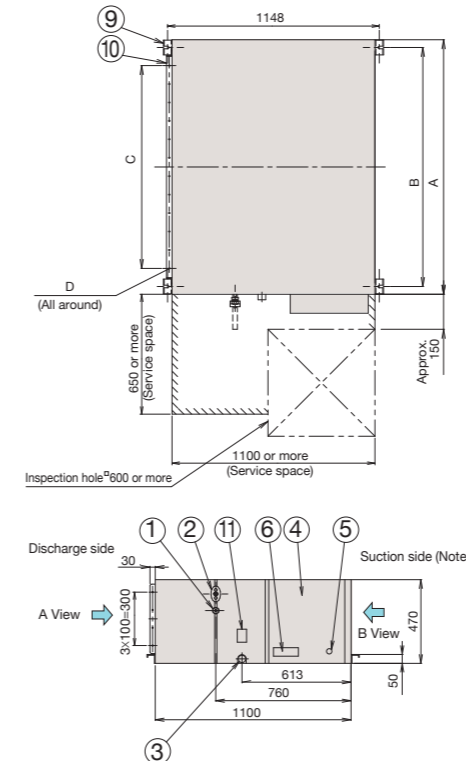
Model		FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1
Operation/control	Operation remote controller	BRC1E63/BRC1C62		
	Central remote controller	DCS302CA61		
	Unified ON/OFF controller	DCS301BA61		
	Schedule timer	DST301BA61		
	Wiring adaptor for electrical appendices (1)	KRP2A61		
	Wiring adaptor for electrical appendices (2)	KRP4AA51		
Filters	Long-life replacement filter	KAFJ371L140	KAFJ371L280	
	High-efficiency filter	Colourimetric method 65%	KAFJ372L140	KAFJ372L280
		Colourimetric method 90%	KAFJ373L140	KAFJ373L280
	Filter chamber *1	KDJ3705L140	KDJ3705L280	
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.

• 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	φ 19.1 attached piping	φ9.5
FXMQ250MFV1	φ 22.2 attached piping	φ9.5

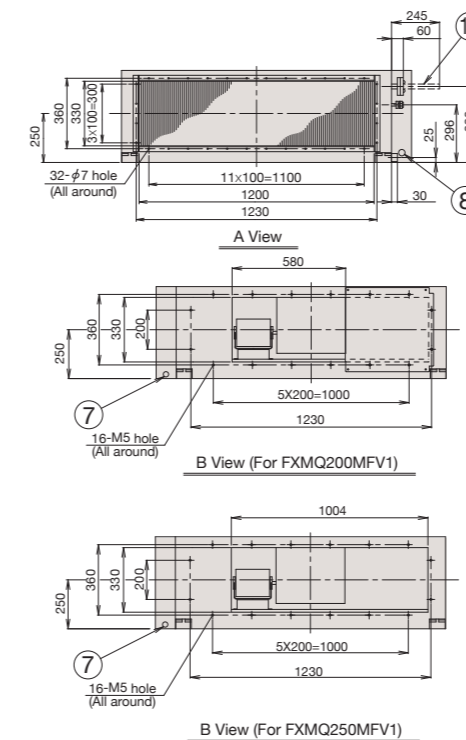
Table of dimensions

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

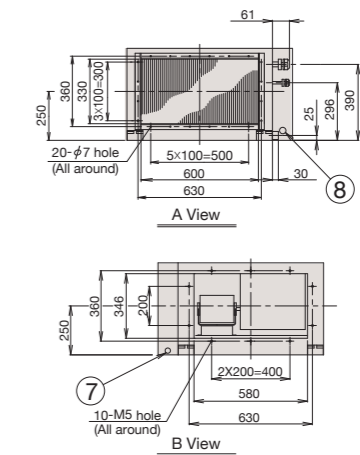
Note:
 1. The attached piping in the diagram is for FXMQ200MFV1 and FXMQ250MFV1 only. The gas piping connection port (2) in the diagram has a different bore form with FXMQ125MFV1.
 2. An air filter is not supplied with this unit. Be sure to mount an air filter in the suction side. (Use a filter with 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

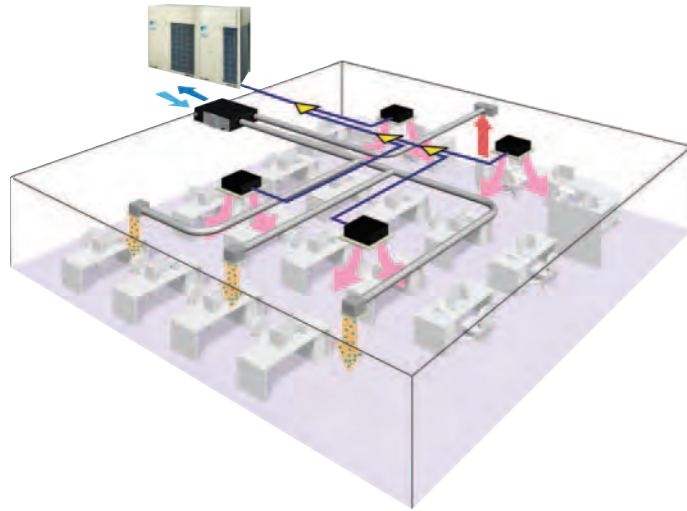


FXMQ125MFV1



Heat Reclaim Ventilator with DX-Coil and Humidifier — VKM series

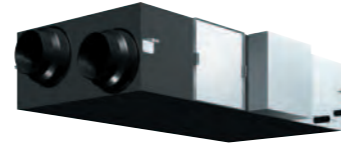
The Heat Reclaim Ventilator lineup features the DX-coil in response to recently diversifying outdoor air introduction requirements.



Lineup

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

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



Humidifier

The lineup includes models with a humidifier, in response to diverse customer requirements. (VKM50/80/100GAMV1 only)

DX-coil

The Heat Reclaim Ventilator features DX-coil that contributes to the prevention of cold airflow colliding people directly during heating operation, due to the after-cool, after-heat operations done beforehand.

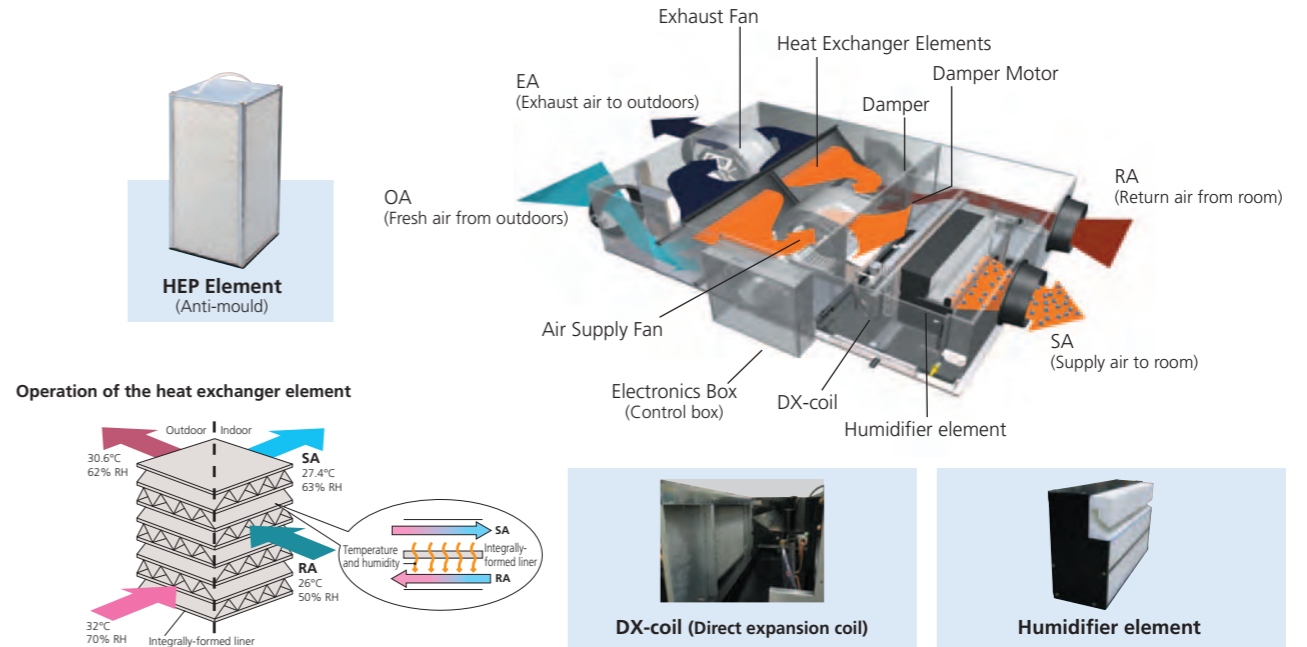
High static pressure

High external static pressure means enhanced design flexibility.

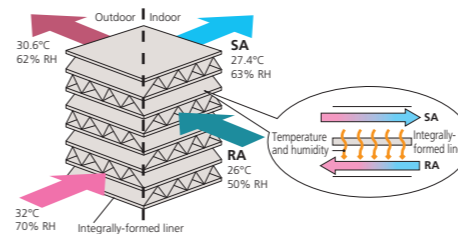
Efficient outdoor air introduction is possible

The Heat Reclaim Ventilator (VKM series) series introduces fresh outdoor air with minimum heat losses, with a wide variety of features cater to customer requirements.

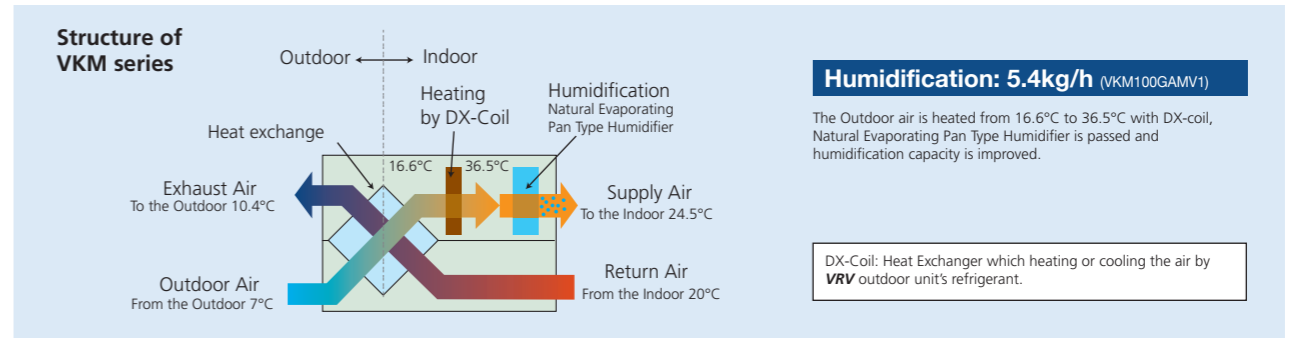
A compact unit packed with Daikin's cutting-edge technologies.



Operation of the heat exchanger element



Heating and humidification process

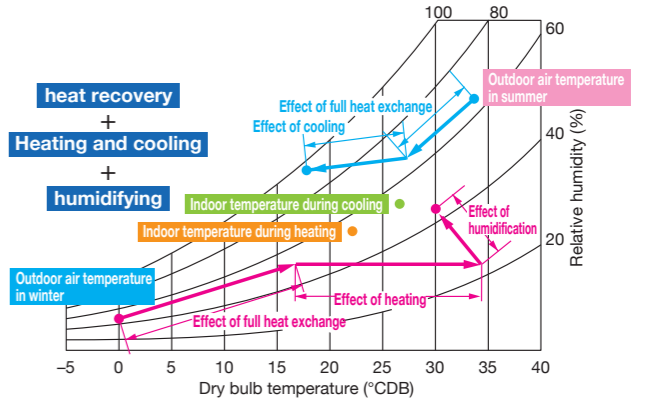


Efficient outdoor air introduction with heat exchanger and cooling/heating operation.

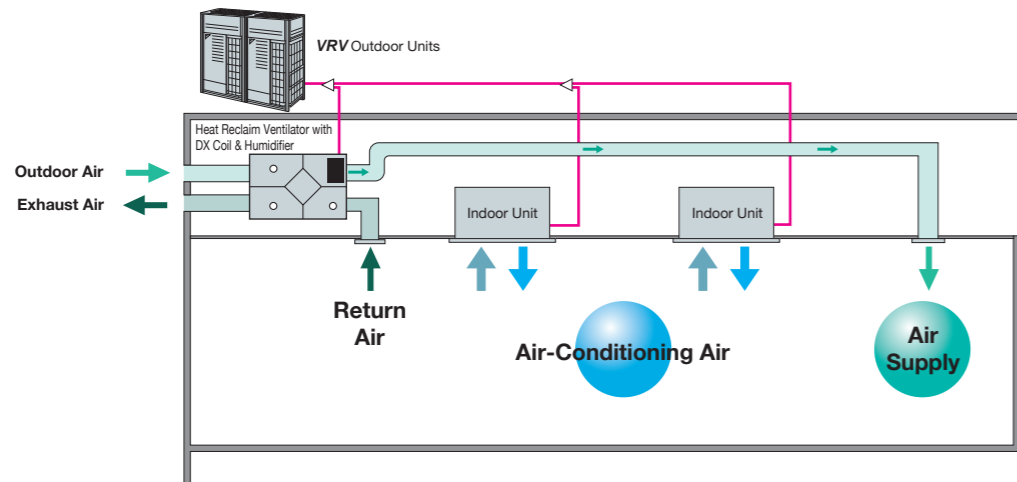
Indoor unit with outdoor air treatment
Using outdoor air, the temperature can be brought near room temperature with minimal cooling capacity through the use of outdoor air.

Other features

- Integrated system includes ventilation and humidifying operations.
- Ventilation, cooling/heating and humidifying are possible with one remote controller.



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



Connection Conditions

The following restrictions must be observed in order to maintain the indoor units connected to the same system.

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

Specifications

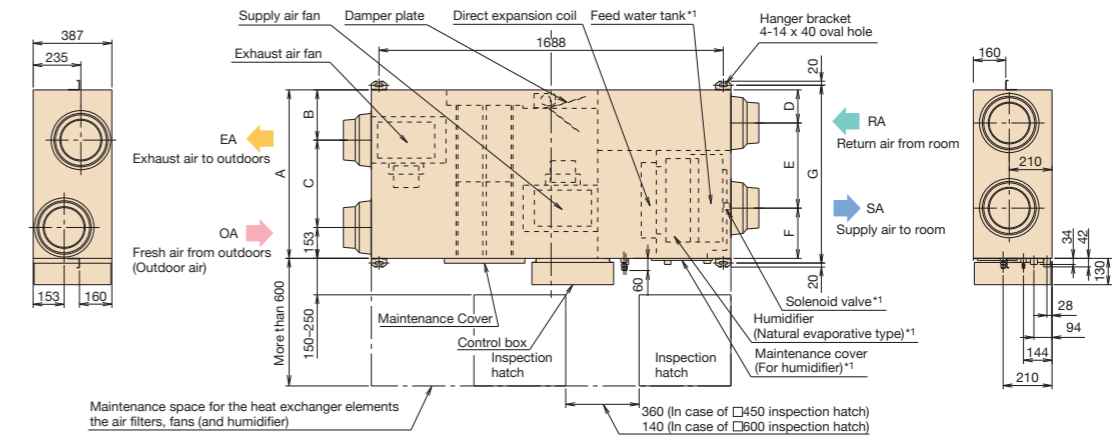
MODEL				VKM50GAMV1*	VKM80GAMV1*	VKM100GAMV1*	VKM50GAV1	VKM80GAV1	VKM100GAV1
Refrigerant				R-410A					
Power Supply				1-phase, 220-240 V, 50 Hz					
Airflow Rate & Static Pressure (Note 7)	Ultra-high	Airflow rate	m ³ /h	500	750	950	500	750	950
		Static pressure	Pa	160	140	110	180	170	150
	High	Airflow rate	m ³ /h	500	750	950	500	750	950
		Static pressure	Pa	120	90	70	150	120	100
	Low	Airflow rate	m ³ /h	440	640	820	440	640	820
		Static pressure	Pa	100	70	60	110	80	70
Power Consumption	Heat exchange mode	Ultra-high	W	560	620	670	560	620	670
		High	W	490	560	570	490	560	570
		Low	W	420	470	480	420	470	480
	Bypass mode	Ultra-high	W	560	620	670	560	620	670
		High	W	490	560	570	490	560	570
		Low	W	420	470	480	420	470	480
Fan Type				Sirocco Fan					
Motor Output				0.280 x 2	0.280 x 2	0.280 x 2	0.280 x 2	0.280 x 2	0.280 x 2
Sound Level (Note 5) (220/230/240 V)	Heat exchange mode	Ultra-high	dB(A)	37/37.5/38	38.5/39/40	39/39.5/40	38/38.5/39	40/41/41.5	40/40.5/41
		High	dB(A)	35/35.5/36	36/37/37.5	37/37.5/38	36/36.5/37	37.5/38/39	38/38.5/39
		Low	dB(A)	32/33/34	33/34/35.5	34/34.5/35.5	33.5/34.5/35.5	34.5/36/37	35/36/36.5
	Bypass mode	Ultra-high	dB(A)	37/37.5/38	38.5/39/40	39/39.5/40	38/38.5/39	40/41/41.5	40/40.5/41
		High	dB(A)	35/35.5/36	36/37/37.5	37/37.5/38	36/36.5/37	37.5/38/39	38/38.5/39
		Low	dB(A)	32/33/34	33/34/35.5	34/34.5/35.5	33.5/34.5/35.5	34.5/36/37	35/36/36.5
Humidification Capacity (Note 4)				2.7	4.0	5.4	—		
Temp. Exchange Efficiency	Ultra-high	%	76	78	74	76	78	74	
	High	%	76	78	74	76	78	74	
	Low	%	77.5	79	76.5	77.5	79	76.5	
Enthalpy Exchange Efficiency (Cooling)	Ultra-high	%	64	66	62	64	66	62	
	High	%	64	66	62	64	66	62	
	Low	%	67	68	66	67	68	66	
Enthalpy Exchange Efficiency (Heating)	Ultra-high	%	67	71	65	67	71	65	
	High	%	67	71	65	67	71	65	
	Low	%	69	73	69	69	73	69	
Casing				Galvanised Steel Plate					
Insulating Material				Self-Extinguishable Urethane Foam					
Heat Exchanging System				Air to Air Cross Flow Total Heat (Sensible + Latent Heat) Exchange					
Heat Exchanger Element				Specially Processed Nonflammable Paper					
Air Filter				Multidirectional Fibrous Fleeces					
DX-coil Capacity	Cooling (Note 2)	kW	2.8	4.5	5.6	2.8	4.5	5.6	
	Heating (Note 3)		3.2	5.0	6.4	3.2	5.0	6.4	
Dimensions	Height	mm	387	387	387	387	387	387	
	Width		1,764	1,764	1,764	1,764	1,764	1,764	
	Depth		832	1,214	1,214	832	1,214	1,214	
	Connection Duct Diameter		mm	φ200	φ250	φ200	φ250	φ250	
Machine Weight	Net	kg	102	120	125	96	109	114	
	Gross (Note 8)		107	129	134	—			
Unit Ambient Condition	Around Unit	0°C-40°CDB, 80%RH or less							
	OA (Note 9)	-15°C-40°CDB, 80%RH or less							
	RA (Note 9)	0°C-40°CDB, 80%RH or less							

- Note: 1. Cooling and heating capacities are based on the following conditions. Fan is based on High and Ultra-high.
When calculating the capacity as indoor units, use the following figures:
VKM50GAMV1/GV1: 3.5 kW, VKM80GAMV1/GV1: 5.6 kW, VKM100GAMV1/GV1: 7.0 kW
2. Indoor temperature: 27°CDB, 19°CWB, Outdoor temperature: 35°CDB
3. Indoor temperature: 20°CDB, Outdoor temperature: 7°CDB, 6°CWB
4. Humidifying capacity is based on the following conditions:
Indoor temperature: 20°CDB, 15°CWB, Outdoor temperature: 7°CDB, 6°CWB
5. The operating sound measured at the point 1.5 m below the centre of the unit is converted to that measured in an anechoic chamber built in accordance with the JIS C 1502 conditions. The actual operating sound varies depending on the surrounding conditions (near running unit's sound, reflected sound and so on) and is normally higher than this value. For operation in a quiet room, it is required to take measures to lower the sound. For details, refer to the Engineering Data.
6. The noise level at the air discharge port is about 8-11 dB(A) or higher than the unit's operating sound.
For operation in a quiet room, it is required to take measures to lower the sound.
7. Airflow rate can be changed over to Low mode or High mode.
8. In case of holding full water in humidifier.
9. OA: fresh air from outdoor. RA: return air from room.
10. Specifications, design and information here are subject to change without notice.
11. Power consumption and efficiency depend on the above value of airflow rate.
12. Temperature exchange efficiency is the mean value for Cooling and Heating. Efficiency is measured under the following condition: Ratio of rated external static pressure outdoor to indoor is kept constant at 7 to 1.
13. In heating operation, freezing of the outdoor unit's coil increases. Heating capability decreases and the system goes into defrost operation. During defrost operation, the fans of the unit continues driving (factory setting). The purpose of this is to maintain the amount of ventilation and humidifying.
14. When connecting with a **VRV** system heat recovery outdoor unit and bringing the RA (exhaust gas intake) of this unit directly in from the ceiling, connect to a BS unit identical to the **VRV** indoor unit (master unit), and use group-linked operation. (See the Engineering Data for details.)
15. When connecting the indoor unit directly to the duct, always use the same system on the indoor unit as with the outdoor unit, perform group-linked operation, and make the direct duct connection settings from the remote controller. (Mode No. "17 (27)" - First code No. "5" - Second code No. "6"). Also, do not connect to the outlet side of the indoor unit. Depending on the fan strength and static pressure, the unit might back up.

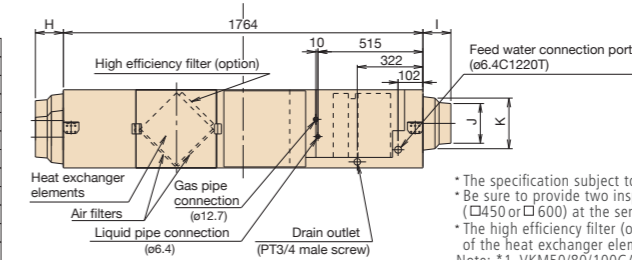
★ Feed clean water (city water, tap water or equivalent). Dirty water may clog the valve or cause dirt deposits in the water container, resulting in poor humidifier performance. (Never use any cooling tower water and heating-purpose water.) Also, if the supply water is hard water, use a water softener because of short life.
* Life of humidifying element is about 3 years (4,000 hours) under the supply water conditions of hardness: 150 mg/L. (Life of humidifying element is about 1 year (1,500 hours) under the supply water conditions of hardness: 400 mg/L.)
Annual operating hours: 10 hours/day x 26 days/month x 5 months = 1,300 hours

Dimensions

VKM50/80/100GA(M)V1



	VKM50GA(M)V1	VKM80/100GA(M)V1
A	832	1,214
B	248	439
C	431	622
D	164	183
E	420	592
F	248	439
G	878	1,262
H	137	89
I	137	89
J	φ196	φ246
K	φ250	φ263



* The specification subject to change without notice.
* Be sure to provide two inspection hatch (□450 or □600) at the service side of filters and elements.
* The high efficiency filter (option) can be attached to the SA surface of the heat exchanger elements.
Note: *1. VKM50/80/100GAMV1 only.

Options

Item	Type	VKM50/80/100GA(M)V1														
Remote controller	BRC1E63/BRC1C62 *1															
	Centralised controlling device	Residential central remote controller	DCS303A51 *2													
		Central remote controller	DCS302CA61													
		Unified ON/OFF controller	DCS301BA61													
		Schedule timer	DST301BA61													
Wiring adaptor for electrical appendices	KRP2A61															
	For humidifier running ON signal output	KRP50-2														
	For heater control kit	BRP4A50														
	For wiring	Type (VRV indoor unit)	FXFSQ-A FXFQ-A	FXZQ-M	FXCQ-A	FXKQ-MA	FXDQ-PD FXDQ-ND	FXSQ-PA	FXMQ-PA	FXMQ-M	FXUQ-A	FXHQ-MA	FXHQ-A	FXAQ-A	FXLQ-MA FXNQ-MA	FXVQ-N
Installation box for adaptor PCB ★		KRP1C11A★ Note 2, 3 KRP1H98A	KRP1B45★ Note 4, 5 KRP1B101	KRP1B61★ Note 2, 3 KRP1B96	KRP1B61	KRP1B56★ Note 4, 5 KRP1B101	KRP1C64★ Note 2, 3 KRP4A98	KRP1C64★ Note 2, 3 KRP4A97	KRP1B61	—	KRP1B497	Note 3 KRP1C93	KRP1D93A	Note 2, 3 KRP4A93	—	—

- Note: 1. Installation box ★ is necessary for each adaptor marked ★.
2. Up to 2 adaptors can be fixed for each installation box.
3. Only one installation box can be installed for each indoor unit.
4. Up to 2 installation boxes can be installed for each indoor unit.
5. Installation box ★ is necessary for each adaptor.
6. *1 Necessary when operating a Heat Reclaim Ventilator (VKM) independently. When operating interlocked with other air conditioners, use the remote controllers of the air conditioners.
*2 For residential use only. When connected with a Heat Reclaim Ventilator (VKM), you can only switch the power ON/OFF, it cannot be used with other central control equipment.

Item	Type	VKM50GA(M)V1	VKM80GA(M)V1	VKM100GA(M)V1
Additional function	Silencer	—	—	KDDM24B100 φ 250
	Air suction/Discharge grille	White	K-DGL200B	K-DGL250B
		Nominal pipe diameter	φ 200	φ 250
	High efficiency filter	—	KAF242H80M	KAF242H100M
Air filter for replacement	—	KAF241G80M	KAF241G100M	
Flexible duct (1 m)	—	K-FDS201D	K-FDS251D	
Flexible duct (2 m)	—	K-FDS202D	K-FDS252D	

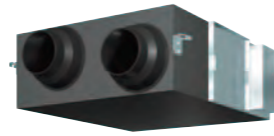
Heat Reclaim Ventilator — VAM series

The Heat Reclaim Ventilator creates a high-quality environment by Interlocking with the air conditioner

Model Names

VAM150GJVE, VAM250GJVE, VAM350GJVE, VAM500GJVE, VAM650GJVE, VAM800GJVE, VAM1000GJVE, VAM1500GJVE, VAM2000GJVE

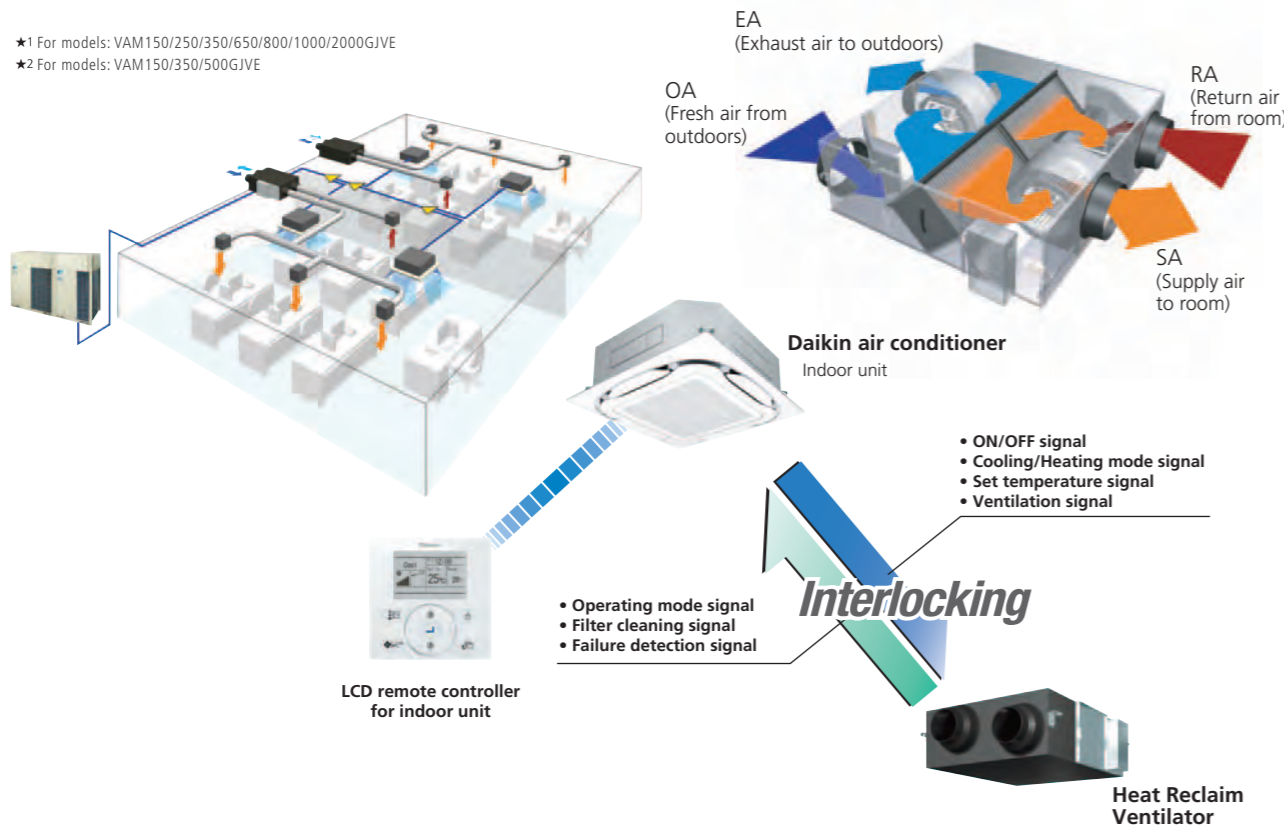
Improved Enthalpy Efficiency *1
Higher External Static Pressure *2
Enhanced Energy Saving Functions



Heat Reclaim Ventilator remote controller* BRC301B61 (Option)
 * This remote controller is used in case of independent operation of Heat Reclaim Ventilator.

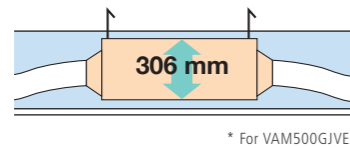
This VAM series provides higher enthalpy efficiency*1, due to the greatly enhanced performance of the thin film element. Furthermore, improved external static pressure*2 offers more flexibility for installation. Along with these three outstanding improvements, the nighttime free cooling operation contributes to energy conservation and more comfortable environment.

*1 For models: VAM150/250/350/650/800/1000/2000GJVE
 *2 For models: VAM150/350/500GJVE



Compact Equipment

With a height of only 306 mm, the unit easily fits into limited spaces, such as above ceilings.

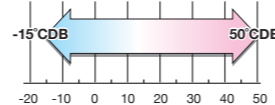


Energy Conservation

Air conditioning load reduced by approximately 31%!

Cold Climate Compatible

Standard operation at temperatures down to -15°C.



Air conditioning load reduced by approximately 31%!

Total heat exchange ventilation

23%

This unit recovers heat energy lost through ventilation and curbs room temperature changes caused by ventilation, thereby conserving energy and reducing the load on the air conditioning system.

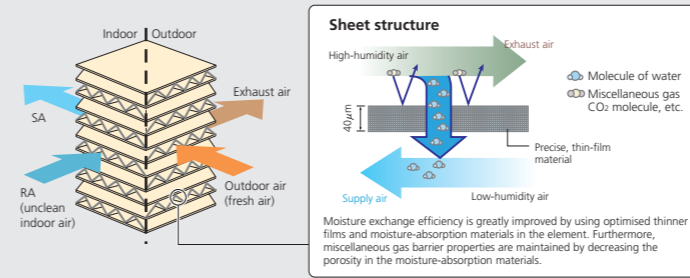
Enthalpy efficiency drastically improved by employing thin film element! (VAM-GJ model)

With the thinner film...

- It can decrease the moisture resistance of the partition sheets drastically.
- Gaining more space for extra layers in the element, result in increasing of effective area that supply and exhaust air can be exposed to.

Thickness of the partition sheet 40 μm

Moisture absorption increased by approx. 10%!



Auto-ventilation Mode Changeover Switching

6%

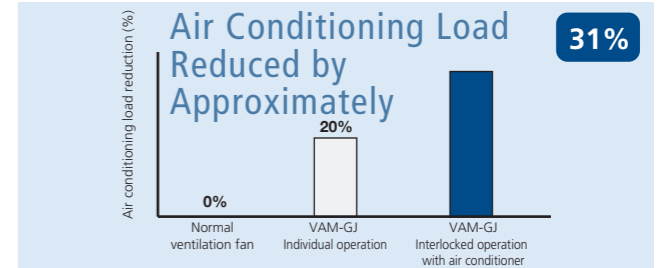
Automatically switches the ventilation mode (Total Heat Exchange Mode/Bypass Mode) according to the operating status of the air conditioner.

Pre-cool, Pre-heat Control

2%

Reduces air conditioning load by not operating the Heat Reclaim Ventilator while air is still clean soon after the air conditioner is turned ON.

- The air conditioning load reduction values may vary according to weather and other environmental conditions at the location of the machine's installation.
- The air conditioning load reduction values are based on the following conditions:
 Application: Tokyo office building
 Building form: 6 floors above ground, 2 floors underground, floor area 2,100 m²
 Personnel density: 0.25 person/m²
 Ventilation volume: 25 m³/h
 Indoor air conditioning level: summer 25°C 50% RH, intermediate seasons 24°C 50% RH, winter 22°C 40% RH
 Operating time: 2745 hours (9 hours per day, approx. 25 days per month)
 Calculation method: simulation based on "MICRO-HASP/1982" of the Japan Building Mechanical and Electrical Engineers Association.

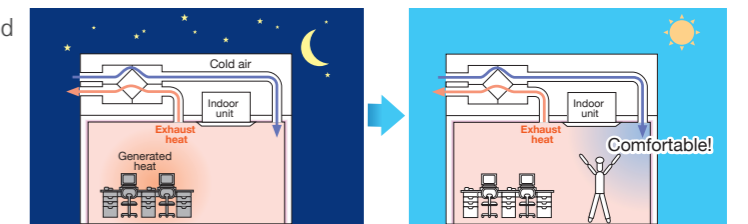


Nighttime free cooling operation*1

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

Air conditioning sensible heat load reduced by approx. 5%*2!

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



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

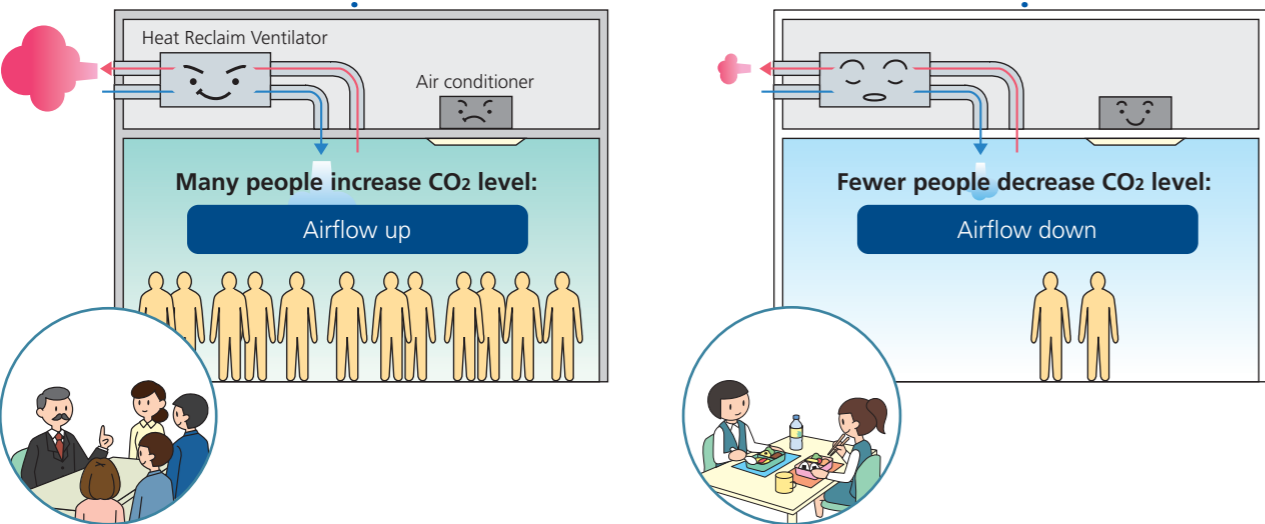
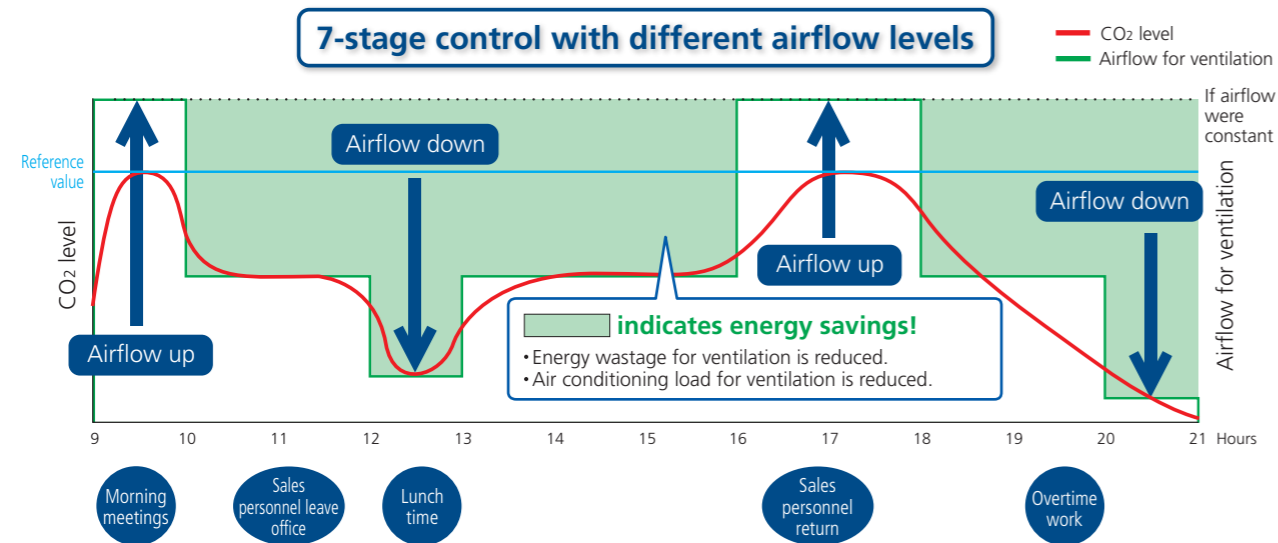
- Nighttime free cooling operation only works to cool and if connected to Building Multi or VRF systems.
 - Nighttime free cooling operation is set to "off" in the factory settings, so if there is a need to turn on, please contact Daikin dealer.
- *1 This function can be operated only when interlocked with air conditioners.
 *2 Value is based on the following conditions:
 • Cooling operation performed from April to October.
 • Calculated for air conditioning sensible heat load only (latent heat load not included).

Heat Reclaim Ventilator — VAM series

CO₂ Sensor Optional Kit Connection

The CO₂ sensor controls airflow so that it best matches the changes in CO₂ level. This prevents energy losses from over-ventilation while maintaining indoor air quality with optional CO₂ sensor.

Example of CO₂ sensor operation in an office room

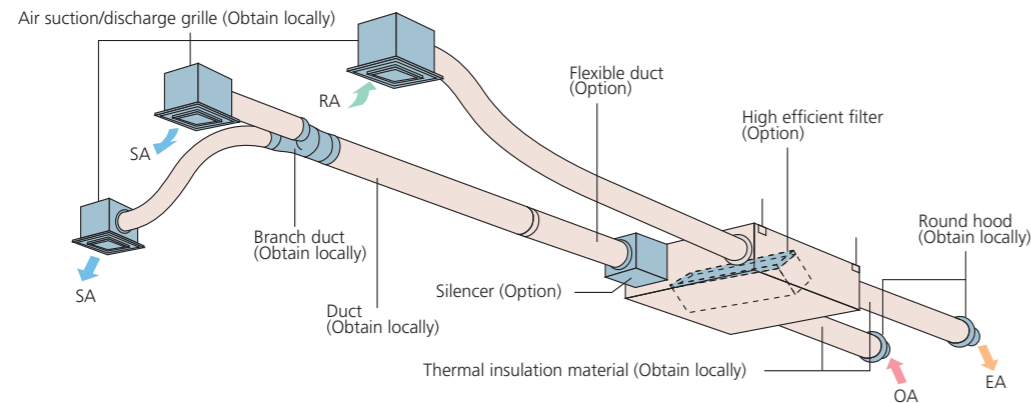


Specifications

MODEL		VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE	VAM650GJVE	VAM800GJVE	VAM1000GJVE	VAM1500GJVE	VAM2000GJVE		
Power Supply		1-phase, 220-240 V/ 220 V, 50/60 Hz										
Temp. Exchange Efficiency (50/60 Hz)	Ultra-High High Low	%	79/79	75/75	79/79	74/74	75/75	72/72	78/78	72/72	77/77	
			79/79	75/75	79/79	74/74	75/75	72/72	78/78	72/72	77/77	
			84/85	79/79	82/82	80/80.5	77/77.5	74/74.5	80.5/81	75.5/76	79/81	
Enthalpy Exchange Efficiency (50/60 Hz)	For Cooling	Ultra-High	66/66	63/63	66/66	55/55	61/61	61/61	64/64	61/61	62/62	
		High	66/66	63/63	66/66	55/55	61/61	61/61	64/64	61/61	62/62	
		Low	70/70.5	66/66	70/70	59/59.5	64/64.5	64/64.5	68.5/69	64/64.5	66/67	
	For Heating	Ultra-High	72/72	71/71	70/70	67/67	67.5/67.5	65/65	70/70	65/65	72/72	
		High	72/72	71/71	70/70	67/67	67.5/67.5	65/65	70/70	65/65	72/72	
		Low	76/76.5	74/74	77/77	74/74.5	71.5/72	67.5/68	72.5/73	67/67.5	76/76	
Power Consumption (50/60 Hz)	Heat Exchange Mode	Ultra-High	125/134	137/141	200/226	248/270	342/398	599/680	635/760	1,145/1,300	1,289/1,542	
		High	111/117	120/125	182/211	225/217	300/332	517/597	567/648	991/1,144	1,151/1,315	
		Low	57/58	60/59	122/120	128/136	196/207	435/483	476/512	835/927	966/1,039	
	Bypass Mode	Ultra-High	125/134	137/141	200/226	248/270	342/398	599/680	635/760	1,145/1,300	1,289/1,542	
		High	111/117	120/125	182/211	225/217	300/332	517/597	567/648	991/1,144	1,151/1,315	
		Low	57/58	60/59	122/120	128/136	196/207	435/483	476/512	835/927	966/1,039	
Sound Level (50/60 Hz)	Heat Exchange Mode	Ultra-High	27-28.5/28.5	27-29/29	31.5-33/33	33-35.5/34	34-36/36	39-40.5/39.5	39.5-41.5/39.5	39.5-41.5/41.5	41.5-43.5/42	
		High	26-27.5/27.5	26-27.5/28	30-31.5/30	31.5-34/32	33-34.5/34	37-39.5/37.5	37.5-39.5/37.5	37.5-39.5/39.5	39-43/40	
		Low	20.5-21.5/21	21-22/21	23-25/23	25-28.5/24	27.5-29.5/28	35-37.5/34	35-37.5/34.5	35-37.5/36	36-39/39	
	Bypass Mode	Ultra-High	28.5-29.5/29.5	28.5-30.5/30.5	33-34.5/34.5	34.5-36/35.5	35-37.5/37.5	40.5-42/41	40.5-42.5/40.5	41-43/42.5	43-45.5/44	
		High	27.5-28.5/28.5	27.5-29/29.5	31.5-33/31.5	33-34.5/33.5	33-35.5/35.5	38.5-40/39	38.5-40.5/38.5	39.5-41/41.5	40.5-45/42	
		Low	22.5-23.5/22	22.5-23/22.5	24.5-26.5/24.5	25.5-28.5/25.5	27.5-30.5/29.5	36-38.5/35.5	36-38.5/35.5	36.5-38/37.5	37.5-39.5/41	
Casing		Galvanised steel plate										
Insulation Material		Self-extinguishable polyurethane foam										
Dimensions (HXWXD)	mm	278x810x551			306x879x800		338x973x832	387x1,111x832	387x1,111x1,214	785x1,619x832	785x1,619x1,214	
Machine Weight	kg	24			32		45	55	67	129	157	
Heat Exchange System		Air to air cross flow total heat (Sensible heat + latent heat) exchange										
Heat Exchange Element Material		Specially processed nonflammable paper										
Air Filter		Multidirectional fibrous fleeces										
Fan	Type	Sirocco fan										
	Airflow Rate (50/60 Hz)	Ultra-High	150/150	250/250	350/350	500/500	650/650	800/800	1,000/1,000	1,500/1,500	2,000/2,000	
		High	150/150	250/250	350/350	500/500	650/650	800/800	1,000/1,000	1,500/1,500	2,000/2,000	
		Low	100/95	155/155	230/230	320/295	500/470	700/670	860/840	1,320/1,260	1,720/1,580	
	External Static Pressure (50/60 Hz)	Ultra-High	120/154	70/96	169/222	105/150	85/125	133/170	168/192	112/150	116/140	
		High	106/131	54/65	141/145	66/52	53/67	92/85	110/86	73/72	58/32	
Low		56/60	24/20	67/30	32/18	35/38	72/61	85/60	56/50	45/45		
Motor Output	kW	0.030x2			0.090x2		0.140x2		0.280x2		0.280x4	
Connection Duct Diameter	mm	φ 100			φ 150		φ 200		φ 250		φ 350	
Unit ambient condition		-15°C~50°CDB, 80%RH or less										

- Note :
1. Sound level is measured at 1.5m below the centre of the body.
 2. Airflow rate can be changed over to Low mode or High mode.
 3. Sound level is measured in an anechoic chamber. Sound level generally becomes greater than this value depending on the operating conditions, reflected sound, and peripheral noise.
 4. The sound level at the air discharge port is about 8 dB(A) higher than the unit's sound level.
 5. The specifications, designs and information given here are subject to change without notice.
 6. Temperature Exchange Efficiency is the mean value between cooling and heating.
 7. Efficiency is measured under the following conditions: Ratio of rated external static pressure has been maintained as follows; outdoor side to indoor side = 7 to 1.
 8. In conformance with JIS standards (JIS B 8628), operating sound level is based on the value when one unit is operated, with the value converted for an anechoic chamber. This is transmission sound from the main unit, and does not include sound from the discharge grille. Thus it is normal for the sound to be louder than the indicated value when the unit is actually installed.
 9. Sound level from the discharge port causes the value to be approximately 8 dB(A) (models with the airflow rate of less than 150 to 500m³/h) to approximately 11 dB(A) (models with the airflow rate of 650m³/h or more) greater than the indicated value. Furthermore, fan rotation and noise from the discharge grille may increase depending on the on-site duct resistance conditions. Please consider noise countermeasures when installing the unit.
 10. With large models in particular (1500 and 2000m³/h models), if the supply air (SA) grille is installed near the main unit, the noise of the main unit may be heard from the discharge grille via the duct, and this will result in a marked increase in noise. In such cases, if peripheral effects are included (such as reverberation of the floor and walls, combination with other equipment, and background noise), sound level may be as much as 15 dB(A) higher than the indicated value. When installing a large model, please provide as much separation as possible between the main unit and the discharge grille. If the equipment and discharge grille are near each other, please consider countermeasures such as the following:
 - Use a sound-muffling box, flexible duct and sound-muffling air supply/discharge grilles
 - Decentralised installation of discharge grilles
 11. When installing in a location with particularly low background noise such as a classroom, please consider the following measures to avoid transmission sound from the main unit:
 - Use of ceiling materials with high sound insulating properties (high transmission loss)
 - Methods of blocking sound transmission, for example, by adding sound insulating materials around the bottom of the sound source.
 Alternatively, consider supplementary methods such as installing the equipment in a different location (corridor, etc.)

Options



Option List

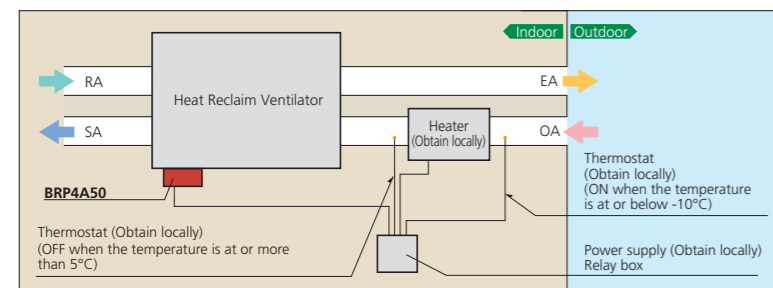
Item	Type	VAM150 · 250 · 350 · 500 · 650 · 800 · 1000 · 1500 · 2000GJVE													
Controlling device	Heat Reclaim Ventilator remote controller	BRC301B61													
	Residential central remote controller	DCS303A51 *1													
	Centralised controlling device	Central remote controller	DCS302CA61												
		Unified ON/OFF controller	DCS301BA61												
		Schedule timer	DST301BA61												
PC Board Adaptor	Wiring adaptor for electrical appendices	KRP2A61													
	For humidifier	KRP50-2													
	Installation box for adaptor PCB	KRP50-2A90 (Mounted electric component assy of Heat Reclaim Ventilator)													
	For heater control kit	BRP4A50													
For wiring	Type (VRV indoor unit)	FXFSQ-A	FXZQ-M	FXCQ-A	FXKQ-MA	FXDQ-PD	FXSQ-PA	FXMQ-PA	FXMQ-MA	FXUQ-A	FXHQ-MA	FXHQ-A	FXAQ-A	FXLQ-MA	FXVQ-N
		FXFQ-A				FXDQ-ND								FXNQ-MA	
		KRP1C11A★	KRP1BA57★	KRP1B61★	KRP1B61	KRP1B56★	KRP1C64★	KRP1C64★	KRP1B61	—	KRP1BA54	KRP1BA54	—	KRP1B61	KRP1C67
Installation box for adaptor PCB ☆		Note 2, 3 KRP1H98A	Note 4, 5 KRP1BA101	Note 2, 3 KRP1B96	—	Note 4, 5 KRP1BA101	Note 2, 3 KRP4A98	Note 2, 3 KRP4A97	—	KRP1BA97	Note 3 KRP1CA93	KRP1D93A	Note 2, 3 KRP4AA93	—	—

- Note: 1. Installation box ★ is necessary for each adaptor marked★. 2. Up to 2 adaptors can be fixed for each installation box. 3. Only one installation box can be installed for each indoor unit. 4. Up to 2 installation boxes can be installed for each indoor unit. 5. Installation box★ is necessary for each adaptor. 6. *1 For residential use only. When connect with a Heat Reclaim Ventilator (VAM), you can only switch the power ON/OFF. It cannot be used with other central control equipment.

Item	Type	VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE	VAM650GJVE	VAM800GJVE	VAM1000GJVE	VAM1500GJVE	VAM2000GJVE
Additional function	Silencer	—			KDDM24B50	KDDM24B100			KDDM24B100X2	
	Nominal pipe diameter [mm]	—			φ 200	φ 250			φ 250	
High efficiency filter		KAF242H25M			KAF242H50M	KAF242H65M	KAF242H80M	KAF242H100M	KAF242H80MX2	KAF242H100MX2
	Air filter for replacement	KAF241H25M			KAF241H50M	KAF241H65M	KAF241H80M	KAF241H100M	KAF241H80MX2	KAF241H100MX2
Flexible duct (1 m)		K-FDS101D	K-FDS151D	K-FDS201D			K-FDS251D			
Flexible duct (2 m)		K-FDS102D	K-FDS152D	K-FDS202D			K-FDS252D			
Duct adaptor		—								YDFA25A1
	Nominal pipe diameter [mm]	—								φ 250
CO ₂ sensor		BRYMA65				BRYMA100		BRYMA65	BRYMA100	

PC board adaptor for heater control kit (BRP4A50)

When the installation of an electric heater is required in a cold region, this adaptor with an internal timer function eliminates the complicated timer connecting work that was necessary with conventional heaters.



- Notes when installing
- Examine fully an installation place and specification for using the electric heater based on the standard and regulation of each country.
 - Supply the electric heater and safety production devices such as a relay and a thermostat, etc. of which qualities satisfy the standard and regulation of each country at site.
 - Use a non-inflammable connecting duct to the electric heater. Be sure to use 2 m or more between the electric heater and the Heat Reclaim Ventilator for safety.
 - For the Heat Reclaim Ventilator, use a different power supply from that of the electric heater and install a circuit breaker for each.

Individual Control Systems for VRV Systems

Navigation Remote Controller (Wired remote controller) (Option)

This simple, modern designed remote controller with fresh white colour matches your interior design. Operation is much easier and smoother, just follow the indications on the navigation remote controller.

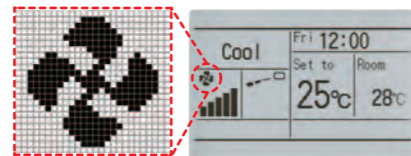


BRC1E63

Clear display

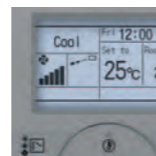
•Dot matrix display

A combination of fine dots enables various icons. Large text display is easy to see.



•Backlight display

Backlight display helps operating in dark rooms.



Simple operation

•Large buttons and arrow keys

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

•Guide on display

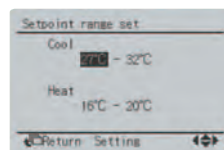
The display gives an explanation of each setting for easy operation.



Energy saving

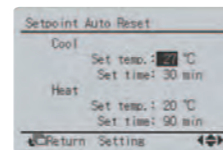
•Setpoint range set

- Saves energy by limiting the min. and max. set temperature.
- Avoids excessive cooling.
- This function is convenient when the remote controller is installed 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.



Restaurant sample

Restaurant opened

Temperature is set to 27°C

Full tables at lunchtime

Then is lowered to 24°C for crowded room

After 30 minutes*

Automatically returns to preset temperature (27°C)

Returns to 27°C automatically

*Preset-return time can be set at 30, 60, 90, or 120 min

•Off timer

- Turns off the air conditioner after a preset period of time.
- Period can be preset from 30 to 180 minutes in 10-minute increments.

Convenience

•Setback (default: OFF)

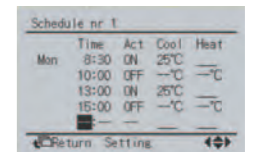
Maintains the room temperature in a specific range during unoccupied period by temporarily starting air conditioner that was turned OFF.

Ex) Setback temperature Cooling : 35°C Recovery differential Cooling : -2°C
When the room temperature goes above 35°C, the air conditioner starts operating in Cooling automatically. When room temperature reaches 33°C, the air conditioner returns OFF.

	Setback temperature	Recovery differential
Cooling	33 — 37°C	-2 — -8°C
Heating	10 — 15°C	+2 — +8°C

•Weekly schedule

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



College classroom sample (a summer Monday case)

1) 8:30 ON

The first period starts and the air conditioner starts the cooling operation.

2) 10:00 OFF

In the second period, the classroom is unoccupied and the air conditioner stops.

3) 13:00 ON

When the third period starts, operation starts again.

4) 15:00 OFF

After the third period, the classroom becomes vacant again and the air conditioner stops.

•Auto display off

- While operation is stopping, LCD display can be turned OFF. It will be displayed again if any button is pressed.
- Period can be preset from 10, 30, 60 minutes, and OFF. Initial setting is 30 minutes.

Comfort

•Individual airflow direction (*1)

Airflow direction can be individually adjusted for each air discharge outlet to deliver optimal air distribution that conforms to conditions for airflow direction (small and large loads).

*1. Only available for FXF(S)Q-A, FXCQ-A and FXUQ-A series.

•5-step airflow control (*2)

Control of airflow rate can be selected from 5-step control, which provides comfortable airflow.

*2. The number of airflow steps differs according to the type of indoor unit. 5-step airflow is only available for FXF(S)Q-A and FXCQ-A series.

•Auto airflow rate (*3)

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

*3. Only available for FXF(S)Q-A, FXUQ-A, FXCQ-A, FXDQ-PD/ND, FXSQ-PA, FXMQ-PA, FXHQ-A and FXAQ-A series.

Level 1 (Low)

Level 2

Level 3 (Medium)

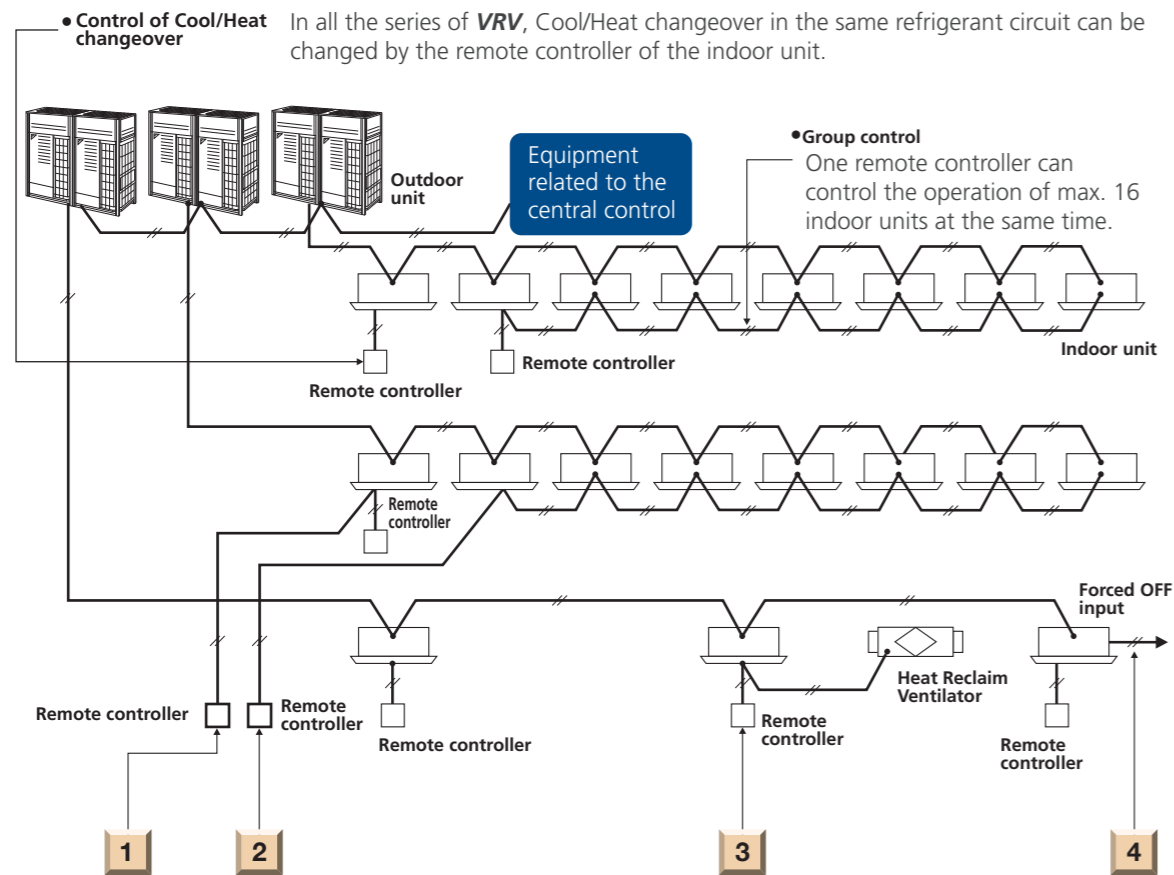
Level 4

Level 5 (High)

Auto

Individual Control Systems for VRV Systems

The wired remote controller supports a wide range of control functions



Simplified remote controller (Option)



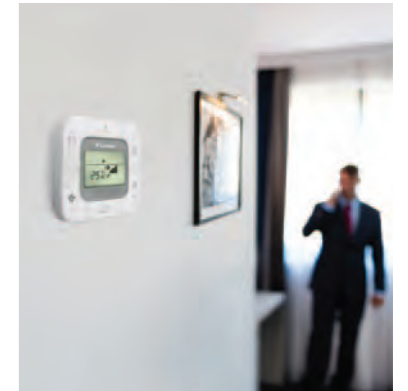
Easy operation with new intuitive design

Simple operation

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



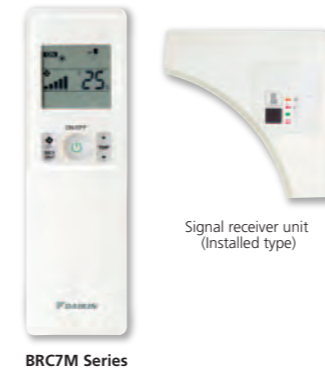
Intuitive design

By using pictograms, the user-friendly interface enables operation is much easier and smoother.

Compact size

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

Wireless remote controller (Option)

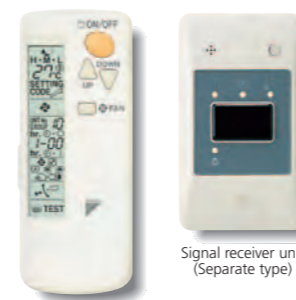


BRC7M Series

- 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 unit shown in the photograph is of BRC7M635F for FXF(S)Q series.
- Backlight LCD of new wireless remote controller



Pressing the backlight button helps operating in dark rooms.



BRC-C, E Series

- 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 150 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	FXVQ
Navigation remote controller (Wired remote controller) (BRC1E63)	●	●	●	●	●	●	●	●	●	●	●	●	●
Wireless remote controller* (Installed type signal receiver unit)	●	●	●	●	●					●	●		
Wireless remote controller* (Separate type signal receiver unit)						●	●	●	●			●	
Simplified remote controller (BRC2E61)		●	●	●	●	●	●	●	●	●	●	●	●

*Refer to page 150 for the name of each model.

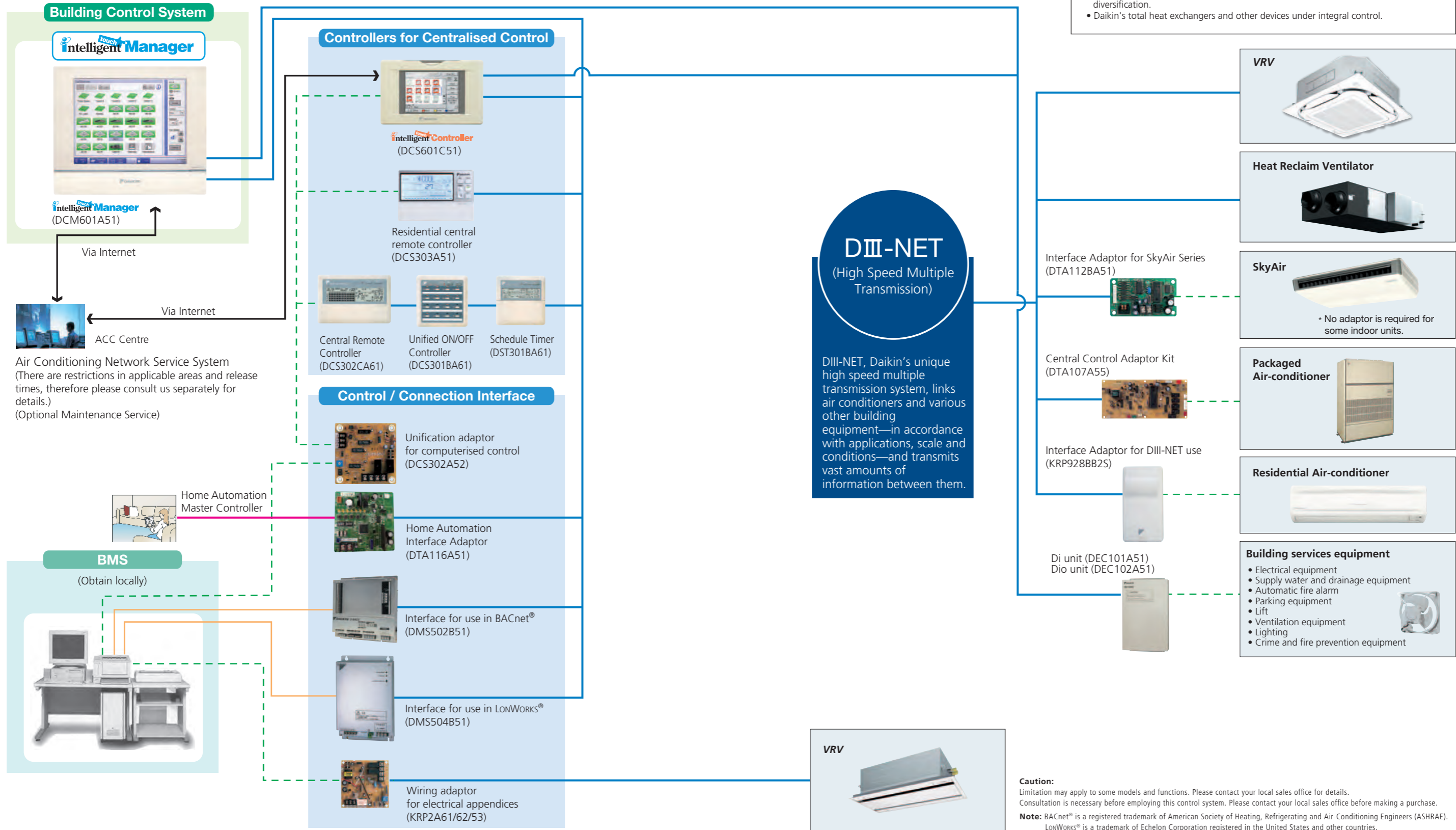
Integrated Building Monitoring System

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

- 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.



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)

BMS
(Obtain locally)

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.

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



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



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

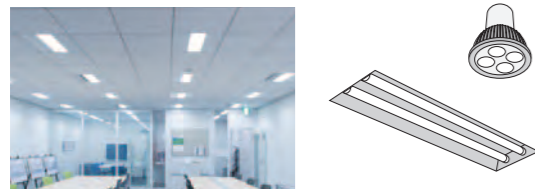
Individual air-conditioning control

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



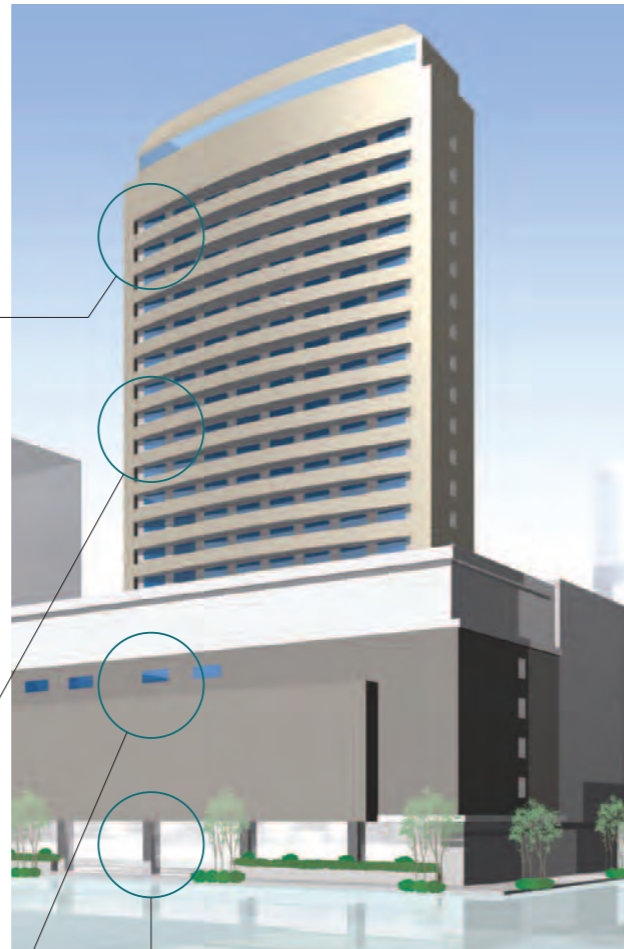
Lighting control DALI-compatible

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



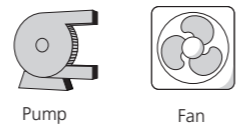
Air-conditioning control for large spaces

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



Building equipment control

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

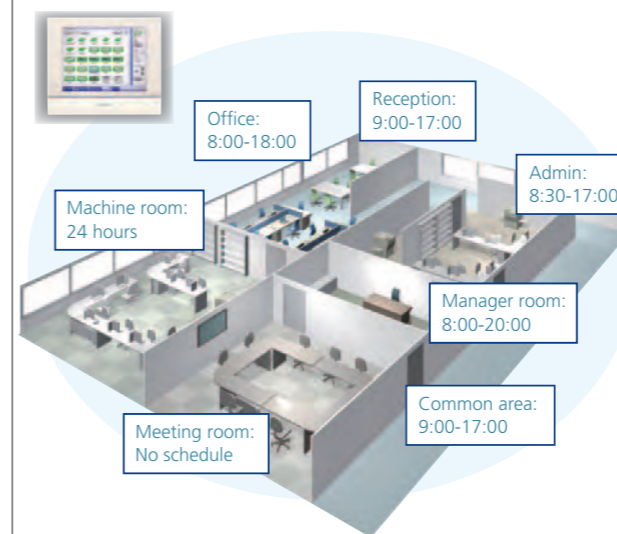


For Energy Saving & Comfort

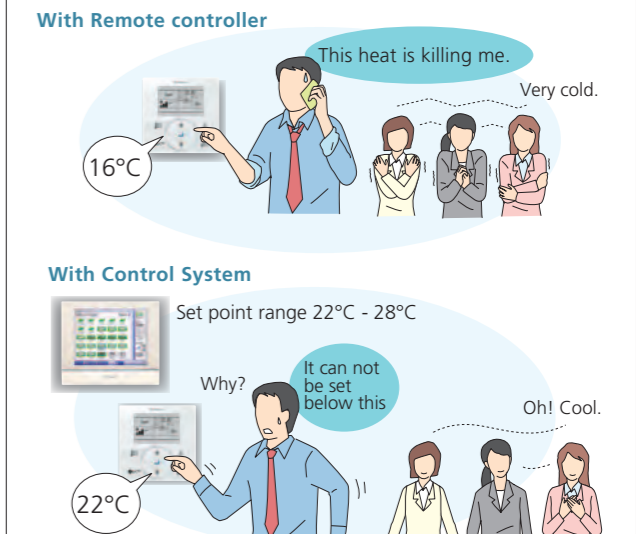
intelligent Touch Manager maximises the advantages of VRV features

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.

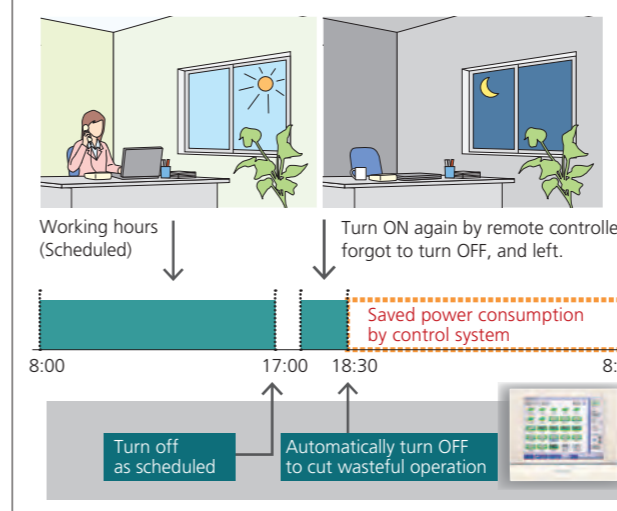
Schedule the operation time for each application.



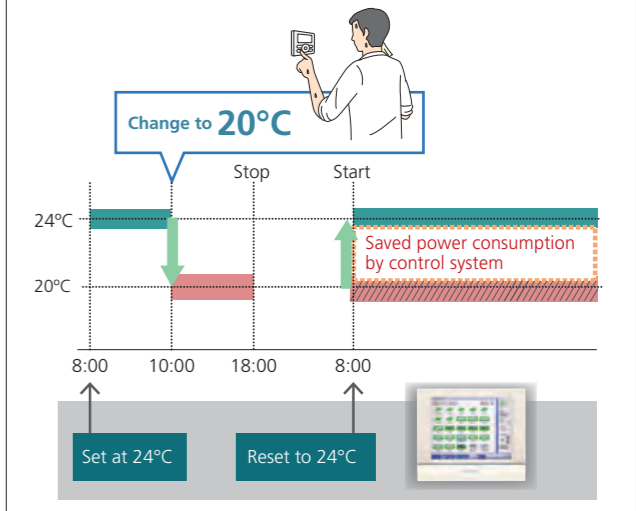
Define the setpoint range that users can change.



Turn the unit OFF if a user didn't.



Reset setpoint regularly.



Advanced Control Systems for VRV Systems

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

Lighting control (Option)

Connection to DALI - compatible lighting control system

Simple wiring (daisy chain) enables management of LED lighting by the *intelligent Touch Manager*.

Various air conditioning and lighting control is enabled through the interlock with occupancy sensors and illuminance sensors.

DALI-compatible

Please contact your local sales office for details.

Lighting control achieved by the *intelligent Touch Manager*

[Operation]

- Switch-on/switch-off operation
- Illuminance (1–100%) control
- Various illuminance patterns can be registered
- Registered pattern can be selected from *intelligent Touch Manager*

[Monitoring]

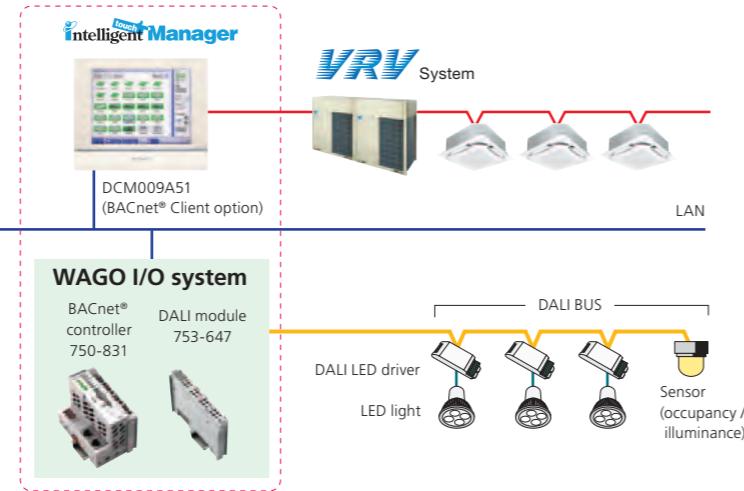
- Switch-on/switch-off status monitoring
- Lighting abnormality monitoring
- Illuminance monitoring
- DALI occupancy sensor monitoring
- DALI illuminance sensor monitoring

[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.

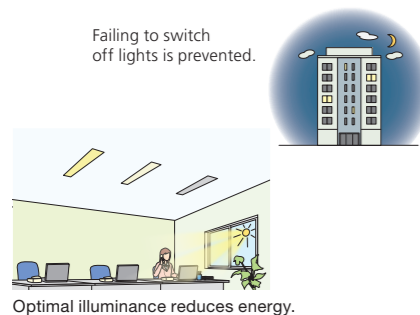
Air conditioning and lighting for which power consumption is high can be efficiently controlled to promote energy conservation and cost reduction!



Easy maintenance and energy saving by lighting control

Case 1

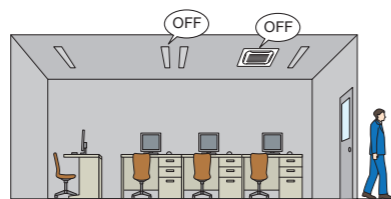
Switch-on / switch-off and illuminance are controlled based on a schedule to cut wasteful power consumption.



Case 2

Occupancy sensors are used to eliminate both wasteful lighting and air conditioning.

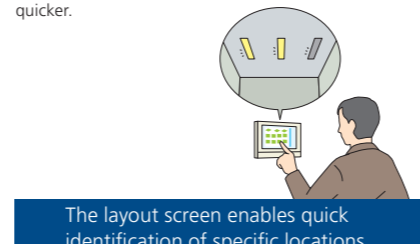
When a room is unoccupied, the air conditioning stops and the lighting is switched off.



Case 3

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

Lighting maintenance becomes easier and quicker.



Tenant Management (PPD* Option)

Reporting the power consumption of VRV system for each tenant

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

The energy consumption is proportionally calculated for each indoor unit. The data can be used for energy management and calculation of air conditioning usage fees for respective tenants.

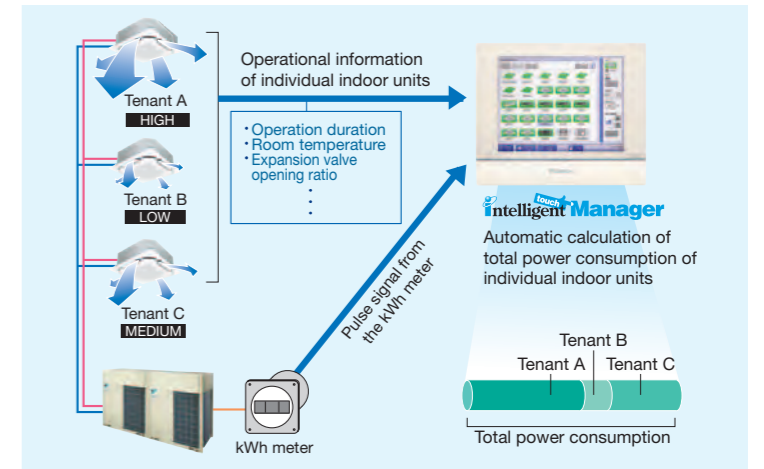
Operational information of individual indoor units are monitored, based on distribution of power consumption of outdoor units.

Daikin's PPD keeps track of power distribution for each indoor unit. It performs air conditioning billing calculations quickly and automatically.

It is easy to output PPD data.

PPD data is output in CSV format to a PC or USB memory device and can be freely processed and managed.

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



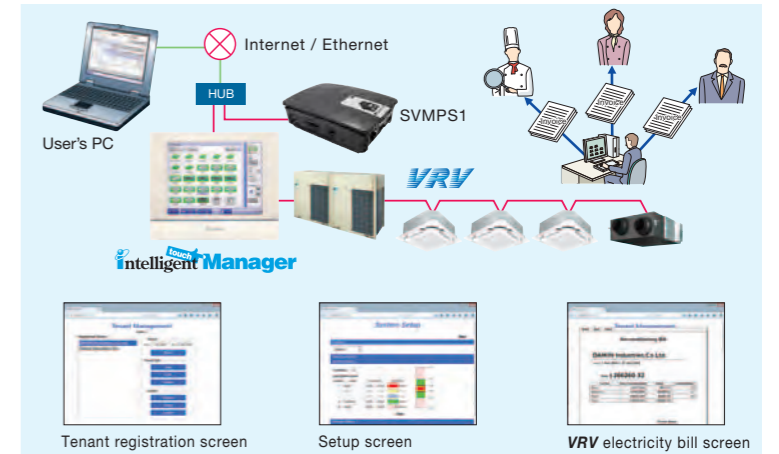
Air conditioning bills can be issued by one click

Electricity bills can be easily calculated for each tenant (Option)

The power consumption of VRV controlled by the *intelligent Touch Manager* can be easily managed for each tenant using a PC. The electricity bill settings facilitate billing work through easy calculation and issuance of VRV electricity bills.

[Main functions]

- Register tenants
- Set the electricity unit price for 5 time zones
- Calculate power consumption and electricity charge for each tenant
- Show aggregation results in the specified period for each tenant
- Output the results (Printout and CSV file)



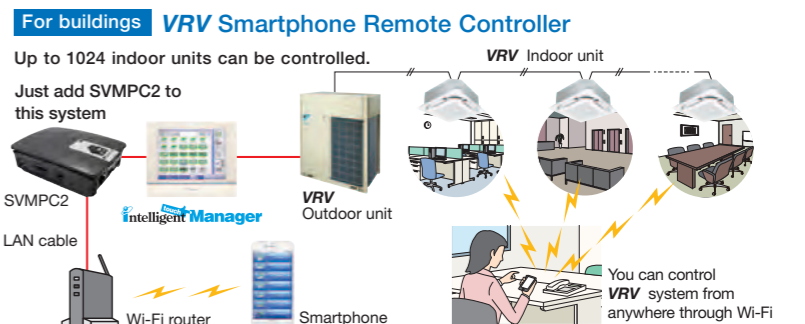
Effective service functions offered to tenants

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

Users can operate and check the status of VRV system from their smartphones via Wi-Fi. 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.

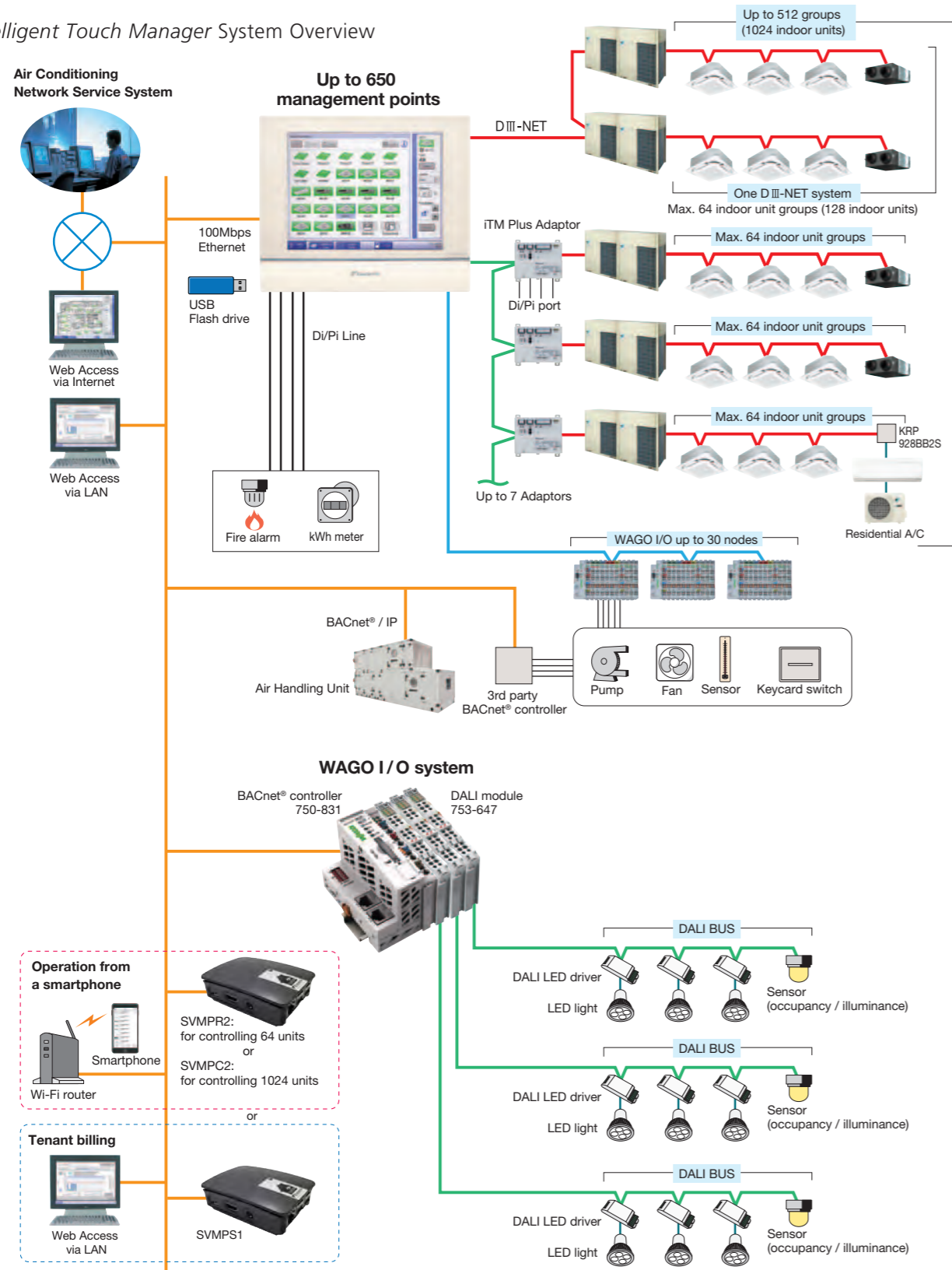
It is also possible to check if air conditioners in other rooms remain switched on etc., helping achieve energy saving.



Advanced Control Systems for VRV Systems

System structure

intelligent Touch Manager System Overview



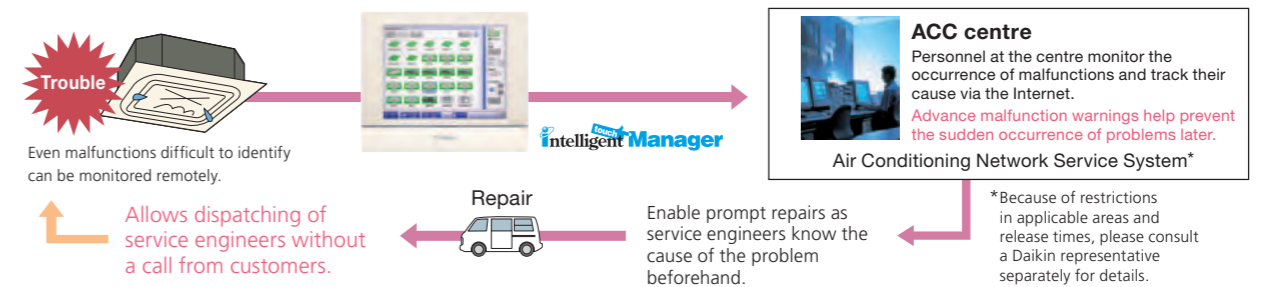
Air Conditioning Network Service System

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.



Daikin Offers a Variety of Control Systems

Convenient controllers that offer more freedom to administrators



Intelligent Controller

Ease of use and expanded control functions

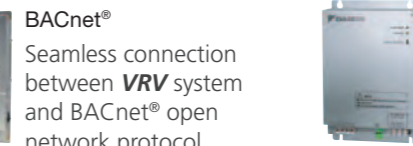
The user-friendly controller features colours, multilingual function, and icons in the display for ease of understanding. A wide variety of control methods can be accommodated, permitting administrators to monitor and operate the system even when they are away from the controller.

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.



DMS502B51 (Interface for use in BACnet®)



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

Note: 1. BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).
2. LONWORKS® is a trademark of Echelon Corporation registered in the United States and other countries.

Dedicated interfaces make Daikin air conditioners freely compatible with open networks

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

For house VRV Smartphone Control System

Up to 64 indoor units can be controlled.

Just add SVMPS2 to this system

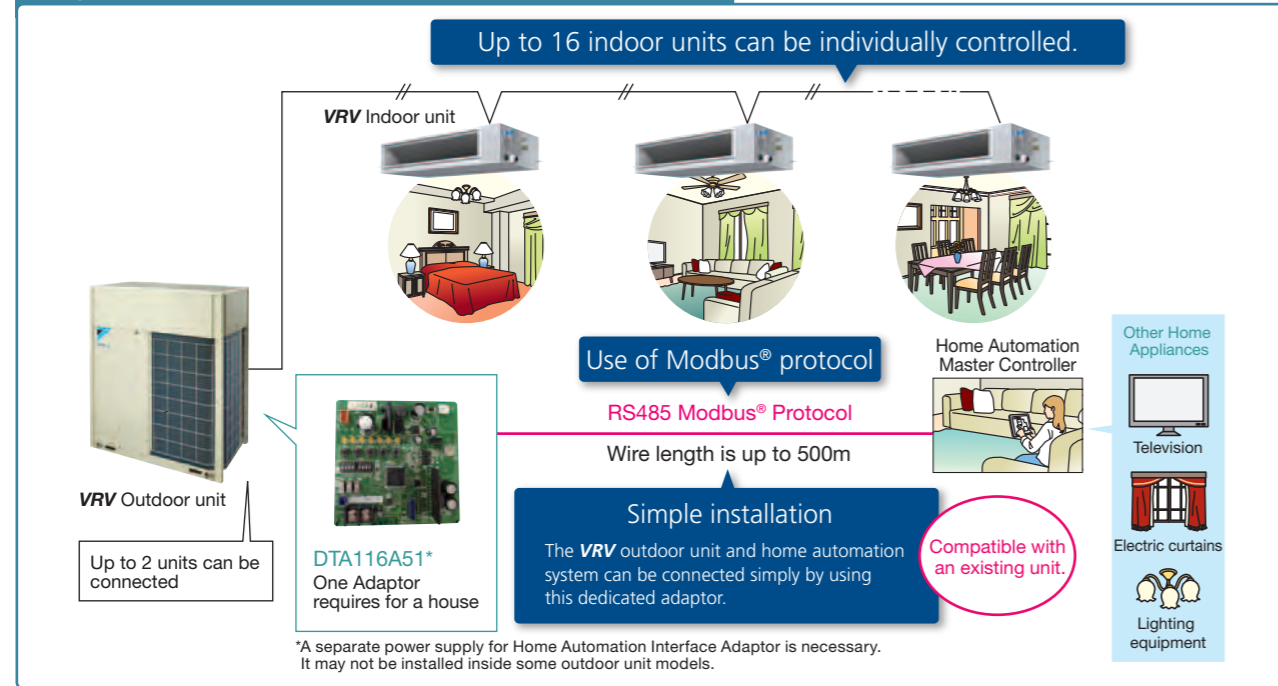


Advanced Control Systems for VRV Systems

Home Automation Interface Adaptor

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

Image to use Home Automation Interface Adaptor DTA116A51



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

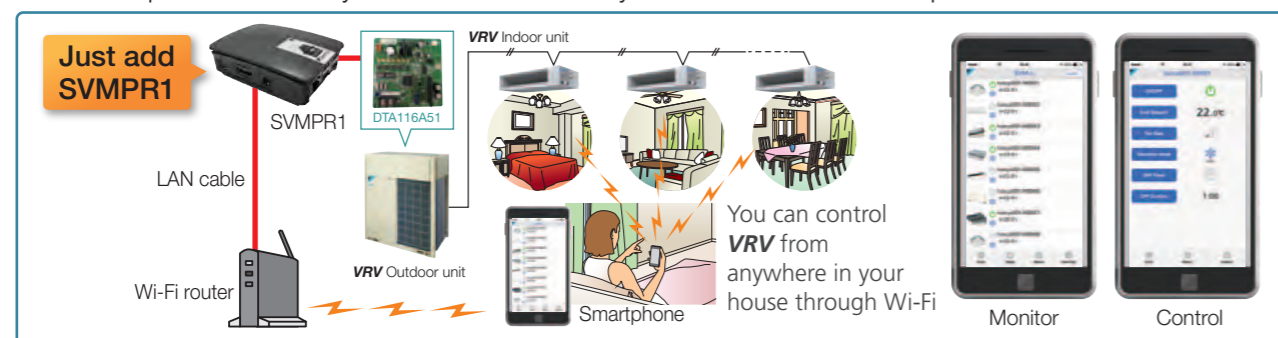
On/Off	On/Off control of indoor units
Operation mode	Cooling, Heating, Fan, Dry, Auto (depend on indoor unit capability)
Setpoint	Cooling/Heating setpoint
Fan direction	Swing, Stop, Flap direction (depend on indoor unit capability)
Fan volume	L, M, H (depend on indoor unit capability)
Filter sign reset	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 SVMPC1 which is a new product to utilize DTA116A51.



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

VRV Tablet and Smartphone Controller: SVMPC1

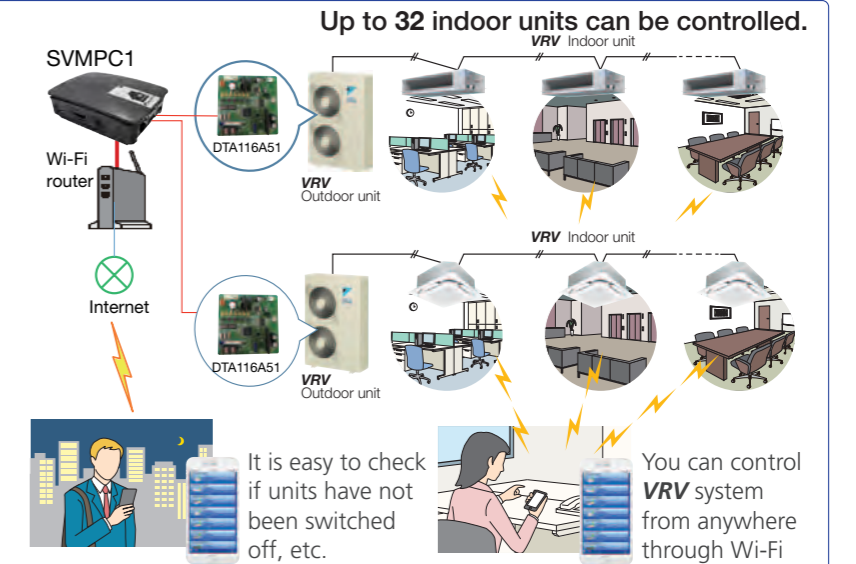
The SVMPC1 is easy to install, and enables monitoring and operation of VRV systems via tablets and smartphones. It is optimal for centralized management of VRV systems in small buildings or on individual floors of a building.

Simple and easy Smart Control

- SVMPC1 is easy to install. Just add DTA116A51 to outdoor unit and connect it to controller.
- Thanks to user-friendly screen, anyone can operate easily.



- Set point range limitation and setback function achieve energy saving and comfortable air-conditioning.
- Daily air-conditioning operation is automatically done by schedule function with annual calendar.
- Quick notification of malfunction by e-mail to support quick maintenance.



Functions

Category	Function	Detail
Main screen	Status monitoring	On/Off, Setpoint, Operation mode, Fan step, Flap, Error, Error code, Room Temperature
	Manual operation	On/Off, Setpoint, Operation mode, Fan step, Flap, Scene Control
Automatic control	Setpoint range limitation*	Cool setpoint min/max, Heat setpoint min/max
	Off timer*	Off timer on/off, Off timer duration (5min - 12h, every 5min)
	Setback operation*	Setback setpoint range (Cool: 24-35°C, Heat: 10-20°C)
	Schedule*	Action registration: Time, On/Off, Setpoint, Operation mode, Fan step, Flap, Off timer on/off, Setback setpoint
	Interlock	Calendar setting: set by date or day of the week Interlock operation depend on equipment status
System setting		Language, Password setting, User administration*, Point setting*

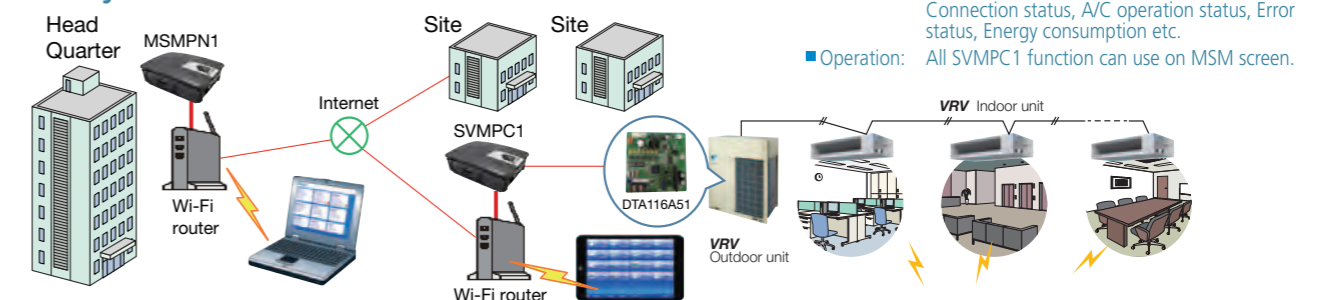
*: Only admin user can set.

Specifications

Category	Specification	Detail
Connectable units	Number of indoor units	Max 16 (per DTA116A51)
	Number of DTA116A51	Max 2 (maximum of 32 indoor units can be connected)
Connectable device	Number of Tablet/Smartphone	Max 20
	Device type	iPad, iPhone, Android tablet, Android Phone, Windows Tablet, Windows Phone, Windows PC, Mac
	Web browser	Firefox, Chrome, Safari

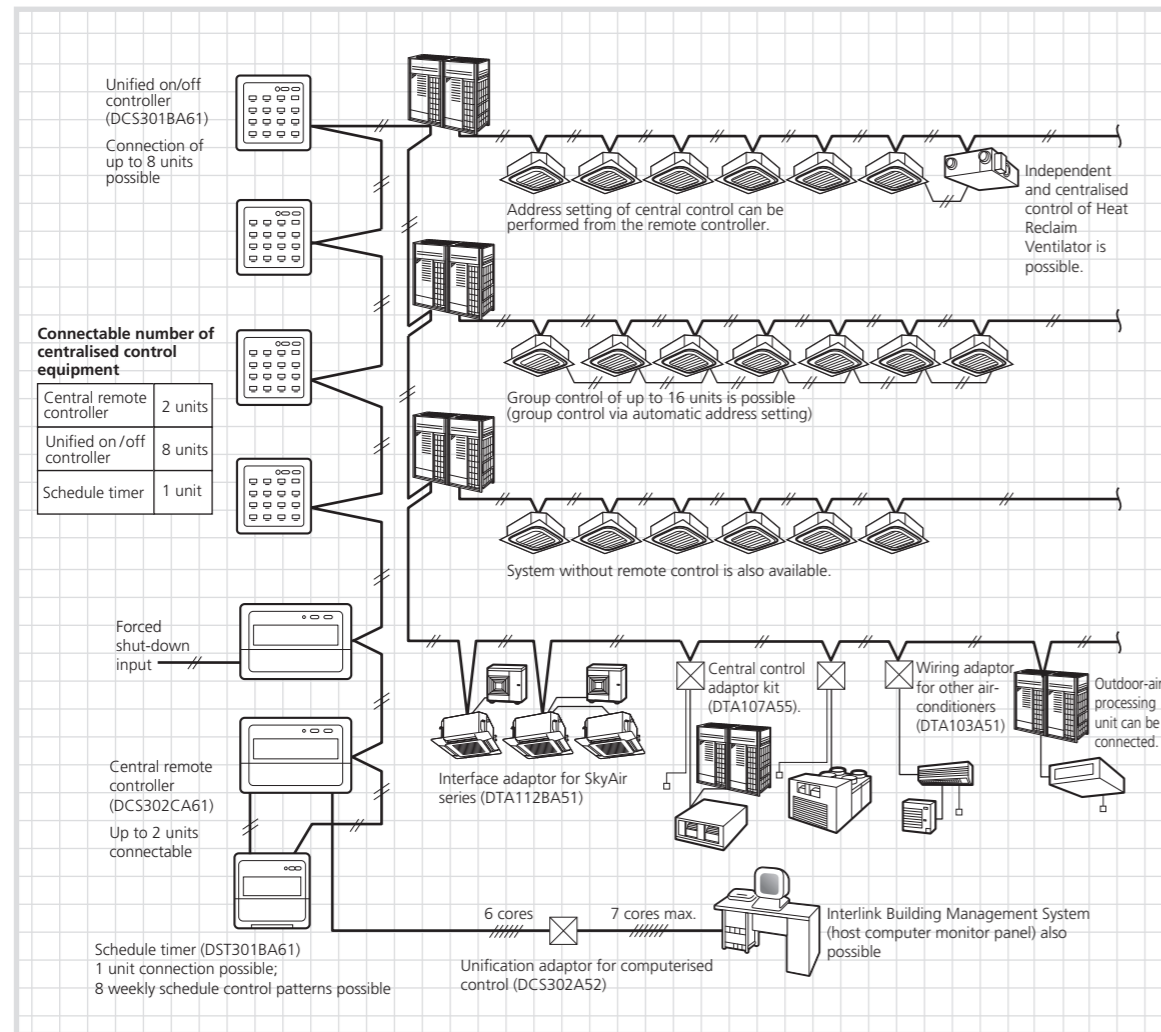
Multi Site Management System by using SVMPC1: MSMPN1

The MSMPN1 enables monitoring and operation of all VRV system connected via SVMPC1 on each site.



Centralised Control Systems

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



• Certain indoor units limit the functions of some control systems. For more details, please refer to the Engineering Data.

Residential central remote controller* (Option)



DCS303A51

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

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

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

Central remote controller (Option)



DCS302CA61

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

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

Unified ON/OFF controller (Option)



DCS301BA61

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

- Max. 16 groups (128 indoor units) controllable
- 2 remote controllers can be used to control from 2 different places.
- Operating status indication (Normal operation, Alarm)
- Centralised control indication
- Max. wiring length 1,000 m (Total: 2,000 m)
- Compact size casing (Thickness: 16 mm)
- Connectable with Central Remote controller, Schedule timer and BMS system

Schedule timer (Option)



DST301BA61

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

- Max. 128 indoor units controllable
- When used in combination with a central remote controller, a maximum of 8 weekly schedule patterns can be set, while the central controller can be used to select desired zones. Up to 2 ON/OFF pairs can be set per day.
- Max. 48 hours back up power supply
- Max. wiring length 1,000 m (Total: 2,000 m)
- Compact size casing (Thickness: 16 mm)
- Connectable with Central Remote controller, Unified ON/OFF controller and BMS system

Outdoor Units

VRV H SERIES High-COP Type

No.	Item		Type	RXYQ12AH RXYQ14AH RXYQ16AH			RXYQ18AH RXYQ20AH RXYQ22AH			RXYQ24AH			RXYQ26AH RXYQ28AH RXYQ30AH RXYQ32AH RXYQ34AH			RXYQ36AH RXYQ38AH RXYQ40AH RXYQ42AH RXYQ44AH		
				KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)			KHRP26A22T, KHRP26A33T, KHRP26A72T			KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T			KHRP26M22H, KHRP26M33H, (Max. 4 branch) (Max. 8 branch) KHRP26M72H, KHRP26M73H (Max. 8 branch) (Max. 8 branch)			KHRP26M33H, KHRP26M72H, (Max. 8 branch) (Max. 8 branch) KHRP25M73H (Max. 8 branch)		
1	Distributive piping	REFNET header																
		REFNET joint																
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 RXYQ38AH RXYQ40AH RXYQ42AH RXYQ44AH		
				DTA109A51			DTA104A61			DTA116A51			BKS26A *1		
1	DIII-NET expander adaptor ★														
2	External control adaptor ★														
3	Home Automation Interface Adaptor ★														
4	Option plate for control adaptor			-											

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

VRV H SERIES Standard Type

No.	Item		Type	RXYQ6A RXYQ8A RXYQ10A			RXYQ12A RXYQ14A RXYQ16A RXYQ18A			RXYQ20A			RXYQ22A		
				KHRP26M22H, KHRP26M33H (Max. 4 branch) (Max. 8 branch)			KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)			KHRP26A22T, KHRP26A33T, KHRP26A72T			BHFP22P100		
1	Distributive piping	REFNET header													
		REFNET joint													
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		
				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)			KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T			KHRP26M73TP, KHRP26M73HP			BHFP22P151					
1	Distributive piping	REFNET header																			
		REFNET joint																			
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		
				DTA109A51			DTA104A61			DTA116A51			BKS26A *1			BKS26A *1					
1	DIII-NET expand adaptor ★																				
2	External control adaptor ★																				
3	Home Automation Interface Adaptor ★																				
4	Option plate for control adaptor			-			BKS26A *1			-			BKS26A *1			-					

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

REFNET joint (KHRP26A22/33/72/73T)



VRV R SERIES

No.	Item		Type	REYQ8TA REYQ10TA			REYQ12TA REYQ14TA REYQ16TA REYQ18TA REYQ20TA			REYQ22TA			REYQ24TA			REYQ26TA REYQ28TA REYQ30TA			REYQ32TA REYQ34TA REYQ36TA		
				KHRP25M33H (Max. 8 branch)			KHRP25M33H, KHRP25M72H, (Max. 8 branch) (Max. 8 branch)			KHRP25A22T, KHRP25A33T, KHRP25A72T			KHRP25A22T, KHRP25A33T, KHRP25A72T, KHRP25A73T			KHRP25M33H, KHRP25M72H, (Max. 8 branch) (Max. 8 branch) KHRP25M73H (Max. 8 branch)					
1	Distributive piping	3 Pipes	REFNET header																		
			REFNET joint																		
		2 Pipes	REFNET header																		
			REFNET joint																		
2	Pipe size reducer			-			KHRP25M72TP						KHRP25M72TP, KHRP25M73TP, KHRP26M73HP								
3	Outdoor unit multi connection piping kit			-						BHFP26P90											

No.	Item		Type	REYQ38TA REYQ40TA REYQ42TA			REYQ44TA REYQ46TA REYQ48TA			REYQ50TA REYQ52TA REYQ54TA			REYQ56TA REYQ58TA REYQ60TA		
				KHRP25M33H, KHRP25M72H, KHRP25M73H (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)			KHRP25A22T, KHRP25A33T, KHRP25A72T, KHRP25A73T			KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)			KHRP26A22T, KHRP26A33T, KHRP26A72T		
1	Distributive piping	REFNET header													
		REFNET joint													
2	Pipe size reducer														
3	Outdoor unit multi connection piping kit												BHFP26P136		

Option PCB

No.	Item		Type	REYQ8TA REYQ10TA REYQ12TA			REYQ14TA REYQ16TA REYQ18TA REYQ20TA			REYQ22TA REYQ24TA			REYQ26TA REYQ28TA REYQ30TA REYQ32TA REYQ34TA REYQ36TA			REYQ38TA REYQ40TA REYQ42TA REYQ44TA REYQ46TA REYQ48TA			REYQ50TA REYQ52TA REYQ54TA REYQ56TA REYQ58TA REYQ60TA		
				DTA109A51			DTA104A61			BKS26A *1			BKS26A *1			BKS26A *1					
1	DIII-NET expand adaptor ★																				
2	External control adaptor ★																				
3	Option plate for control adaptor			-			BKS26A *1			-			BKS26A *1			-					

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

VRV Indoor Units

Ceiling Mounted Cassette (Round Flow with Sensing) Type

No.	Item		Type	FXFSQ25A	FXFSQ50A	FXFSQ100A
				FXFSQ32A	FXFSQ63A	FXFSQ125A
				FXFSQ40A	FXFSQ80A	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	BYCQ125EASF *				
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		KDB551160F			
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	FXFQ50A	FXFQ100A
				FXFQ32A	FXFQ63A	FXFQ125A
				FXFQ40A	FXFQ80A	FXFQ140A
1	Decoration panel	Standard panel	Fresh white	BYCQ125EAF *		
			Black	BYCQ125EAK *		
		Designer panel ¹	Fresh white	BYCQ125EAPF *		
		Auto grille panel ^{2,3}	Fresh white	BYCQ125EASF *		
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		KDB551160F			
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:
- 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.
 - A dedicated wireless remote controller (BRC16A2) for the auto grille panel is included for lowering and raising the suction grille.
 - When installing auto grille panel, body height (ceiling required dimension) is 55 mm higher than standard panel.
 - Circulation airflow is not available with this option.
 - When installing a fresh air intake kit (chamber type), two air outlet corners are closed.
 - 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.

- 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.
- Please order using the names of both components instead of set name.
- This option cannot be installed to designer panel and auto grille panel.
- Filter chamber is required.
- Please use in case temperature/humidity inside ceiling may get over 30°C, 80% RH.
- *These panels do not contain the sensing function.

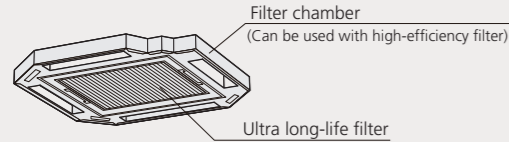
VRV Indoor Units

Options for 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.



Dusty area: annual filter change

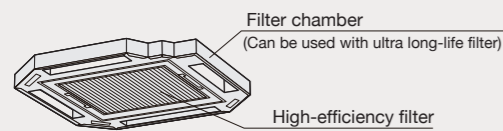
*For dust concentration of 0.3 mg/m³ (Requires separately sold Air purifier.)
1 year (Approx. 5,000 hr) ≈ 15 hr/day x 28 day/month x 12 month/year

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/year x 4 years

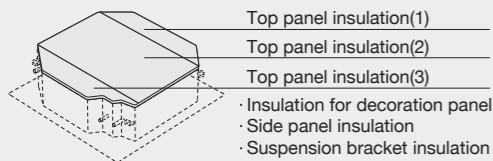
High-efficiency filter unit

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



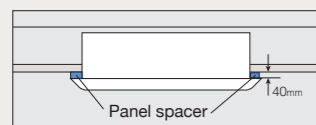
Insulation kit for high humidity

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



Panel spacer

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



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

Sealing material of air discharge outlet

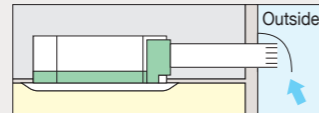
Sealing material block air discharge openings not used in 2-way or 3-way blow.

Branch duct chamber

This chamber lets you connect a round flexible duct to the air discharge opening at any time after the original installation.

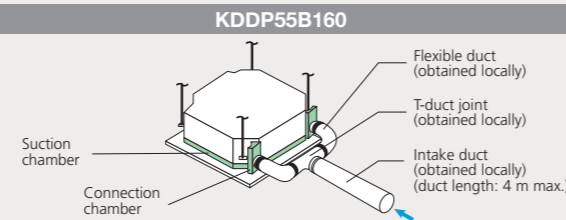
Fresh air intake kit Note 1, 2

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.

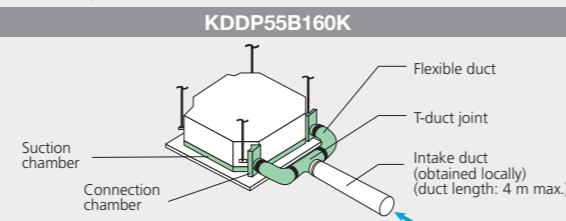


The units can be installed in the following different ways

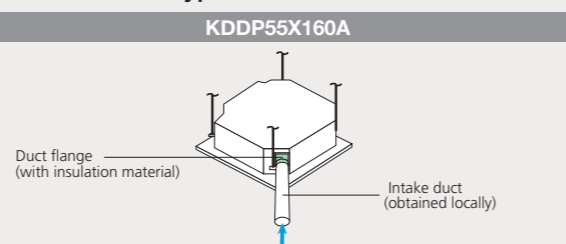
Chamber type (without T-duct joint) Note 3, 4, 5



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



Direct installation type Note 6



- Note: 1. Use of options will increase operating sound.
2. Connecting ducts, fan, insect nets, fire dampers, air filters, and other parts should, as required, be obtained locally.
3. When a local-obtained fan is used, an interlock with air conditioner is necessary. Optional PCB (KRP1C11A) is required for interlocking.
4. When installing a fresh air intake kit (chamber type), two air outlet corners are closed.
5. It is recommended that the volume of outdoor air introduced through the kit is limited to 10% of the maximum airflow rate of the indoor unit. Introducing higher quantities will increase the operating sound and may also influence temperature sensing.
6. The volume of fresh air for direct installation type is approximately 1% of the indoor unit airflow. The chamber type is recommended when more fresh air is necessary.

Ceiling Mounted Cassette (Compact Multi Flow) Type

No.	Item	Type	FXZQ20M	FXZQ25M	FXZQ32M	FXZQ40M	FXZQ50M
1	Decoration panel				BYFQ60B3W1		
2	Sealing material of air discharge outlet				KDBH44BA60		
3	Panel spacer				KDBQ44BA60A		
4	Replacement long-life filter				KAF441C60		
5	Fresh air intake kit	Direct installation type			KDDQ44XA60		

4-Way Flow Ceiling Suspended Type

No.	Item	Type	FXUQ71A	FXUQ100A
1	Sealing material of air discharge outlet		KDBHP49B140	
2	Decoration panel for air discharge		KDBTP49B140	
3	Replacement long-life filter		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	Decoration panel				BYK45FJW1	BYK71FJW1
2	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	KDDFP63B160B
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				KDDB63A160		—

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.

Ceiling Mounted Duct Type

No.	Item	Type	FXMQ20PA FXMQ25PA FXMQ32PA	FXMQ40PA	FXMQ50PA FXMQ63PA FXMQ80PA	FXMQ100PA FXMQ125PA FXMQ140PA	FXMQ200MA FXMQ250MA
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

VRV Indoor Units

Wall Mounted Type

No.	Item	Type	FXAQ20A	FXAQ25A	FXAQ32A	FXAQ40A	FXAQ50A	FXAQ63A
1	Drain pump kit		K-KDU572EVE					
2	External EV kit (for heating operation) *1		BEV15D			BEV30D		

Note: *1. This option is only effective for reducing operation sound during heating operation.

Floor Standing Type

No.	Item	Type	FXLQ20MA	FXLQ25MA	FXLQ32MA	FXLQ40MA	FXLQ50MA	FXLQ63MA
1	Long life replacement filter		KAFJ361L28	KAFJ361L45			KAFJ361L71	

Concealed Floor Standing Type

No.	Item	Type	FXNQ20MA	FXNQ25MA	FXNQ32MA	FXNQ40MA	FXNQ50MA	FXNQ63MA
1	Long life replacement filter		KAFJ361L28	KAFJ361L45			KAFJ361L71	

Floor Standing Duct Type

No.	Item	Type	FXVQ125N	FXVQ200N	FXVQ250N	FXVQ400N	FXVQ500N		
1	Replacement long life filter		KAF261M140	KAF261M224	KAF261M280	KAF261N450	KAF261N560		
2	Ultra long-life filter		-				KAFS9A400	KAFS9A560	
3	Front suction filter chamber for high efficiency filter	Front suction base flange	KD-9A140	KD-9A200	KD-9A280	KD-9A400	KD-9A560		
4		Suction grille	KDGF-9A140	KDGF-9A200	KDGF-9A280	KDGF-9A400	KDGF-9A560		
5		Filter chamber for high efficiency filter	Replacement long-life filter *1, 2, 3	65% *1, 3	KAF-91B140	KAF-91B200	KAF-91B280	KAF-91B400	KAF-91B560
6				90% *2, 3	KAF-92B140	KAF-92B200	KAF-92B280	KAF-92B400	KAF-92B560
7					KAF-93B140	KAF-93B200	KAF-93B280	KAF-93B400	KAF-93B560
8			Filter chamber *1, 2	KDDF-9A140	KDDF-9A200	KDDF-9A280	KDDF-9A400	KDDF-9A560	
9		Plenum chamber *4		KPCJ140A	KPC5J	KPC8J	KPCJ400A	KPC15JA	
10		Pulley for plenum chamber *4		KPP8JA	KPP9JA	KPP10JA	-		
11		Fresh air intake kit		KD106D10				KDFJ906A560	
12		Rear suction kit		KDFJ905B140	KDFJ905B200	KDFJ905B280	KDFJ905B400	KDFJ905B560	
13		Discharge grille for plenum side		KD101A10				KD101A20	
14		Wood base		KKWJ9A140	KWF1G5P	KWF1G8P	KKWJ9A400	KWF1G15	
15		Vibration isolating frame		K-ABSG1406A	K-ABSG1407A	K-ABSG1408A	K-ABSG1409A	K-ABSG1410A	

Note: *1. When ordering a filter chamber for high efficiency filter (65%), please order with all the respective parts.

*2. When ordering a filter chamber for high efficiency filter (90%), please order with all the respective parts.

*3. When replacing with a new filter, please order the replacement filters with the corresponding filter model name.

*4. Use the plenum chamber and pulley for plenum chamber in combination.

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	FTXJ25NVMVW FTXJ25NVMVS	FTXJ35NVMVW FTXJ35NVMVS	FTXJ50NVMVW FTXJ50NVMVS	FTXS20D	FTXS25E FTXS35E	FTXS50F FTXS60F FTXS71F	
1	Titanium apatite deodorising filter		KAF970A46						KAF971B42

Note: 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		KHRP26B22T	

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

BS Units for Heat Recovery

Individual BS Unit

No.	Item	Type	BSQ100AV1	BSQ160AV1	BSQ250AV1
1	Quiet kit		KDDN26A1		
2	External control adaptor for outdoor units		DTA104A61		
3	Adaptor for multi tenant		DTA114A61		

Centralised BS Unit

No.	Item	Type	BS4Q14AV1	BS6Q14AV1	BS8Q14AV1	BS10Q14AV1	BS12Q14AV1	BS16Q14AV1
1	Closed pipe kit		KHFP26A100C					
2	Joint kit		KHRP26A250T					
3	Quiet kit		KDDN26B4	KDDN26B8	KDDN26B12		KDDN26B16	

Control Systems

Operation Control System Optional Accessories



For VRV indoor unit use

No.	Item	Type	FXFSQ-A	FXFQ-A	FXZQ-M	FXCQ-A	FXKQ-MA	FXDQ-PD FXDQ-ND	FXSQ-PA	FXMQ-PA
1	Navigation remote controller		BRC1E63 Note 6		BRC1E63			BRC1E63		
2	Simplified remote controller		BRC2E61							
3	Remote controller	Wireless	C/O BRC7M635F (Fresh White) / BRC7M635K (Black)	BRC7E531W	BRC7M66	BRC4C63	BRC4C66 Note 7			
		H/P					BRC7M634F (Fresh White) / BRC7M634K (Black)	BRC7E530W	BRC7M65	BRC4C61
4	Adaptor for wiring		★KRP1C11A	★KRP1BA57	★KRP1C14A	KRP1B61	★KRP1B56	★KRP1C64		
5-1	Wiring adaptor for electrical appendices (1)		-		★KRP2A62	★KRP2A51	KRP2A61	★KRP2A53	★KRP2A61	
5-2	Wiring adaptor for electrical appendices (2)		★KRP4AA53				★KRP4AA51		★KRP4AA51	
6	Remote sensor (for indoor temperature)		KRC501-5B		BRC501A-1		BRC501A-1		BRC501A-4	
7	Installation box for adaptor PCB ☆		Note 2, 3 KRP1H98A	Note 4, 5 KRP1BA101	Note 2, 3 KRP1C96	-		Note 4, 5 KRP1BA101	Note 2, 3 KRP4A98	Note 2, 3 KRP4A97
8	External control adaptor for outdoor unit		★DTA104A62		★DTA104A61	DTA104A61	★DTA104A53	★DTA104A61		
9	Adaptor for multi tenant		★DTA114A61		-			★DTA114A61		

No.	Item	Type	FXMQ-MA	FXUQ-A	FXHQ-MA	FXHQ-A	FXAQ-A	FXLQ-MA FXNQ-MA	FXVQ-N	
1	Navigation remote controller		BRC1E63	BRC1E63 Note 6	BRC1E63				BRC1E63 Note 9	
2	Simplified remote controller (Exposed type)		BRC2E61							
3	Remote controller	Wireless	C/O BRC4C64	BRC7C59 Note 7	BRC7EA66	BRC7M56	BRC7M676	BRC4C64	-	
		H/P								BRC4C62
4	Adaptor for wiring		KRP1B61	-		KRP1BA54		-		
5-1	Wiring adaptor for electrical appendices (1)		KRP2A61	-		★KRP2A62	-		★KRP2A61	
5-2	Wiring adaptor for electrical appendices (2)		KRP4AA51	★KRP4AA53	★KRP4AA52		★KRP4AA51		KRP2A61	
6	Remote sensor (for indoor temperature)		BRC501A-1	BRC501A-4	BRC501A-1		BRC501A-1			
7	Installation box for adaptor PCB ☆		-		KRP1BA97	Note 3 KRP1CA93	KRP1D93A	Note 2, 3 KRP4AA93	-	
8	External control adaptor for outdoor unit		DTA104A61	-		★DTA104A62	DTA104A62	★DTA104A61	DTA104A61	Note 10 DTA104A62
9	Adaptor for multi tenant		-				★DTA114A61	-		
10	External control adaptor for cooling/heating		-							KRP6A1 Note 10
11	Remote controller with key		-							KRCB37-1

Note: 1. Installation box ☆ is necessary for each adaptor marked ★.

2. Up to 2 adaptors can be fixed for each installation box.

3. Only one installation box can be installed for each indoor unit.

4. Up to 2 installation boxes can be installed for each indoor unit.

5. Installation box ☆ is necessary for each adaptor.

6. Some functions can be set only via the wired remote controller BRC1E63. Cannot be set via other remote controllers.

Please refer to each indoor unit and remote controller page for function details.

7. Auto airflow rate cannot be set via wireless remote controllers. Can be set only via wired remote controllers.

8. Since the control panel is equipped as standard, use the option for 2 remote control system.

9. When using BRC1E63, be sure to remove the control panel and since BRC1E63 cannot be stored inside the indoor unit, please place it separately.

10. Remove the group control adaptor which is a standard equipment before mounting KRP6A1 and DTA104A62.

KRP6A1 and DTA104A62 cannot be mounted to the same indoor unit at the same time.

For residential indoor unit use

No.	Item	Type	CDXS-EA FDXS-C	FTXJ-N	FTXS-D,B,F
1	Remote controller	Wireless type	- Note 1		
2	Wiring adaptor for time clock/remote controller Note 2 (Normal open pulse contact/normal open contact)		KRP413BB1S		
3	Remote controller loss prevention chain		KKF917A4	KKF910A4	KKF917A4
4	Interface adaptor for DIII-NET use		KRP928BB2S		

Note: 1. A wireless remote controller is a standard accessory.

2. Time clock and other devices should be obtained locally.

Control Systems

System Configuration

No.	Item	Model No.	Function
1	Residential central remote controller	Note 2 DCS303A51	• Up to 16 groups of indoor units (128 units) can be easily controlled using the large LCD panel. ON/OFF, temperature settings and scheduling can be controlled individually for indoor units.
2	Central remote controller	DCS302CA61	• Up to 64 groups of indoor units(128 units) can be connected, and ON/OFF, temperature setting and monitoring can be accomplished individually or simultaneously. Connectable up to 2 controllers in one system.
2-1	Electrical box with earth terminal (3 blocks)	KJB311AA	
3	Unified ON/OFF controller	DCS301BA61	• Up to 16 groups of indoor units(128 units) can be turned, ON/OFF individually or simultaneously, and operation and malfunction can be displayed. Can be used in combination with up to 8 controllers.
3-1	Electrical box with earth terminal (2 blocks)	KJB212AA	
3-2	Noise filter (for electromagnetic interface use only)	KEK26-1A	
4	Schedule timer	DST301BA61	• Programmed time weekly schedule can be controlled by unified control for up to 64 groups of indoor units (128 units). Can turn units ON/OFF twice per day.
5	Interface adaptor for residential indoor units	KRP928BB2S	
6	Interface adaptor for SkyAir-series	Note 3 ★DTA112BA51	• 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.
7	Wiring adaptor for other air-conditioner	★DTA103A51	
8	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.
8-1	External control adaptor	DTA104A61	• Demand control of individual or multiple systems • Low noise option for individual or multiple systems.
8-2	Mounting plate	KRP4A92	• Fixing plate for DTA109A51

Note: 1. Installation box for ★ adaptor must be obtained locally.
2. For residential use only. Cannot be used with other centralised control equipment.
3. No adaptor is required for some indoor units.

Building Management System

No.	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	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				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		Option	Software	iTM energy navigator	DCM008A51	• Building energy consumption is visualised. Wasted air-conditioning energy can be found out.
2-4				BACnet® client	DCM009A51	• BACnet® equipment can be managed by intelligent Touch Manager.
2-5				HTTP Interface	DCM007A51	• Interface for intelligent Touch Manager by HTTP
2-6			Hardware	*1 SVM series	SVMMPR2	• VRV Smartphone Control System for residence
2-7					SVMPC2	• VRV Smartphone Remote Controller for building
2-8					*5 SVMPS1	• Tenant Billing System with PPD
2-9					SVMMPR1	• VRV Smartphone Control System for residence with DTA116A51.
2-10	VRV Tablet and Smartphone Controller				SVMPC1	*6 • VRV Tablet and Smartphone Controller for small size building or residence with DTA116A51.
2-11	Multi Site Management System by using SVMPC1				MSMPN1	• MSM can control all VRV units via SVM system on multi site.
2-12	Di unit				DEC101A51	• 8 pairs based on a pair of ON/OFF input and abnormality input.
2-13	Dio unit				DEC102A51	• 4 pairs based on a pair of ON/OFF input and abnormality input.
3	Communication interface	*2 Interface for use in BACnet®			DMS502B51	• Interface unit to allow communications between VRV and BMS. Operation and monitoring of air-conditioning systems through BACnet® communication.
3-1		Optional DIII board			DAM411B51	• Expansion kit, installed on DMS502B51, to provide 2 more DIII-NET communication ports. Not usable independently.
3-2		Optional Di board			DAM412B51	• Expansion kit, installed on DMS502B51, to provide 16 more wattmeter pulse input points. Not usable independently.
4		*3 Interface for use in LonWorks®			DMS504B51	• Interface unit to allow communications between VRV and BMS. Operation and monitoring of air-conditioning systems through LonWorks® communication.
5		Home Automation Interface Adaptor			DTA116A51	*7 • Use of the Modbus® protocol enables the connection of the VRV system with a variety of home automation systems from other manufacturers.
5-1		Mounting plate				BKS26A
6	Contact/ analogue signal	Unification adaptor for computerised control		★DCS302A52	• Interface between the central monitoring board and central control units.	

Note: *1. HTTP interface (DCM007A51) is also required.
*2. BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).
*3. LonWorks® is a trademark of Echelon Corporation registered in the United States and other countries.
*4. Installation box for ★ adaptor must be obtained locally.
*5. PPD option (DCM002A51) for iTM is also required.
*6. Possible to connect at a maximum of 2 DTA116A51.
*7. Modbus® is a registered trademark of Schneider Electric S.A.