Note:

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

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

Cautions on product corrosion

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

JMI-0107

JQA-1452

About ISO 9001

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

EC99J2044

About ISO 14001

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

DAIKIN AIRCONDITIONING INDIA PVT. LTD.

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

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

SALES & SERVICE OFFICES

Ahmedabad - Tel: 079-40013100
Bengaluru - Tel: 080-25590452/54
Bhubaneshwar - Tel: 0674-2546476
Chandigarh - Tel: 0172-5089862/64
Chennai - Tel: 044-40807676
Cochin - Tel: 0484-2808646
Delhi NCR - Tel: 011-43834400/4500
Ghaziabad - Tel: 0120-4205851
Indore - Tel: 0731-4005864
Jaipur - Tel: 0141-2218903/04/05
Kolkata - Tel: 033-40608019/40659544
Lucknow - Tel: 0522-4309858/59/60
Ludhiana - Tel: 0161-5077028/29/30
Mumbai - Tel: 022-30926666
Patna - Tel: 0612-2582282
Pune - Tel: 020-25560300
Raipur - Tel: 0771-4911225
Ranchi - Tel: 0763-5093703
Secunderabad - Tel: 040-49134283
Vijaywada - Tel: 0866-2952224/25/26

To know more, give a missed call or SMS:
<DAIKIN> to 9210188999

Visit us at: www.daikinindia.com

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in.company/daikin–airconditioning-india-pvt.-ltd.
www.youtube.com/user/DaikinACIndia

For more product information:

For More information 'Scan Me'

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

DAIPL-2017/22-VRVX-1G

DAIKIN

WORLD'S LEADING AIR CONDITIONING COMPANY FROM JAPAN

PRESENTING THE NEW

VRV X

Heat Pump | Cooling Only

ADVANTAGE

X' TENSIVE RANGE

X' TRA POWER SAVINGS

X' CELLENT TECHNOLOGY

X' TENDED RELIABILITY

INDEX

VRV X

Equipped with Advanced Technology, that results in high energy efficiency. This technological innovation gives end user the advantage of better comfort and works further towards creating a sustainable environment.

DAIKIN
The world leader in air conditioning

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

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

Established in 1924, Daikin Industries Ltd., is a diverse multinational company, active in air conditioning, chemicals and oil hydraulics. With headquarters at Osaka, Japan, our Daikin family has more than 67,000 members, working across 80 production base and 208 consolidated subsidiaries worldwide.

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

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

EUROPE / MIDDLE EAST / AFRICA


Daikin Europe N.V.


Daikin Airconditioning France


Daikin Airconditioning Germany


Daikin Airconditioning Central Europe


Daikin Airconditioning Spain


Daikin Airconditioning Italy


Daikin Airconditioning UK


Daikin Industries Czech Republic


Daikin Chemical France

CHINA


Daikin (China) Investment


Daikin Airconditioning Shanghai


Xi'an Daikin Qing'an Compressor


Hui Zhou Daikin Suns Airconditioning


Daikin Device (Suzhou)


Daikin Fluoro Coating Shanghai

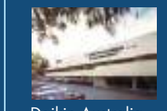

Daikin Fluorochemicals China

ASIA / OCEANIA


Daikin Airconditioning India


Daikin Compressor Industries


Daikin Airconditioning Singapore


Daikin Australia


Daikin Industries Thailand


Daikin Industries Head Office Japan (Inside Umeda Centre Building)

NORTH AMERICA/CENTRAL & SOUTH AMERICA


Daikin America


Daikin AC America


Daikin Holding USA

Exploring new R&D frontiers

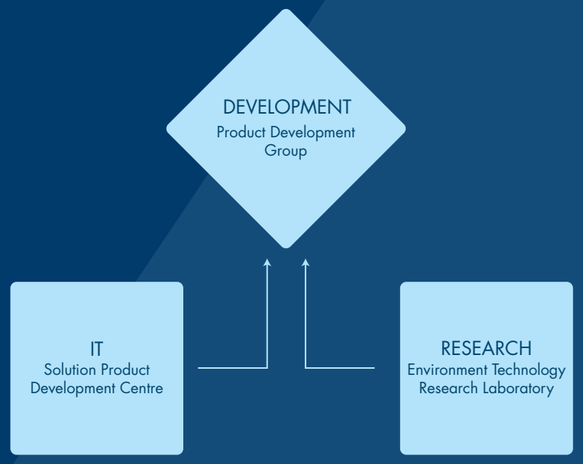
At Daikin, we are creating value through innovative technologies. As a global industry front-runner, we are carrying out research and development on the world's most advanced air conditioning technology.

Our strong R&D edge has helped us create futuristic products that enrich people's lives. As symbolised by the VRV, Daikin has put forth a multitude of products and varied technology that have always been and continue to be, at the forefront of innovation.

To be able to offer such products and services that delight and astound our customers, we have constructed an advanced R&D architecture.

Formation of a three-division system of research, IT and development to support our superior products.

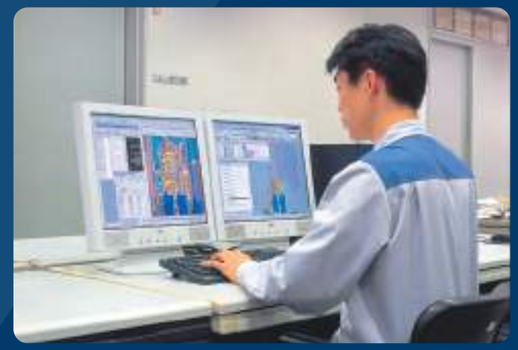
To create more advanced functions and new value, we have instituted specialised R&D divisions: the 'Environmental Technology Research Laboratory' and the 'Solution Product Development Centre'. In combination with the Product Development Group, each of the three divisions work in close co-operation to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

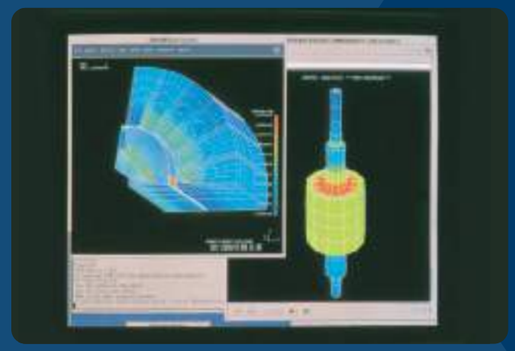


Environmental Technology Research Laboratory: Intensive Research on Environmentally Conscious, Energy Saving Air Conditioning Technology.

Accelerating globalisation of our air conditioning business and varied needs of customers across geographies are increasing our research challenges. We have established a research laboratory devoted to the two fields of 'air conditioning' and 'the environment'. With our mission to promote energy savings in air conditioners, we are engaged in R&D on cutting-edge technologies. Our aim is to create futuristic products from fundamental research on motor inverters and other areas to support individual product development.

Going forward, we will elevate our technology edge to achieve further business expansion globally.





The Solutions Product Development Centre: Integrating Air Conditioners with IT.

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

Technology & Innovation Centre, Japan:

Aiming for new value creation as a core base for technology development.

Research & Development Centre, India:

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

World's most advanced VRV X air conditioning system with Innovative VRT technology.

First launched in Japan in 1982, the Daikin VRV system has been embraced by the world markets for over three decades. Now, we at Daikin introduce the next generation VRV X system to reinforce our industry leadership. The system offers an enhanced line-up to meet an ever widening variety of needs, while improving energy savings, comfort and ease of installation.

The VRV X is the most advanced air conditioning system in the world and is ideal for small and large spaces.

Energy saving technology for *VRV* X System

X' TRA POWER SAVINGS
Next Generation Compressor & VRT Smart Control

VRT-Variable Refrigerant Temperature in Indoor Unit (IDU) and Outdoor Unit (ODU)

The new VRV X system now features VRT technology in IDU & ODU. VRT automatically adjusts refrigerant temperature to individual building load and climate requirement, thus further improving annual energy efficiency and maintaining comfort. With this technology, running costs are reduced.

X' TENSIVE RANGE
Up to 60 HP

X' CELLENT TECHNOLOGY
4D Inverter System

X' TENDED RELIABILITY
Auto-Optimisation Refrigerant Charging

Standard Type

New series with compact and light weight design

6 HP-60 HP with 56 models line-up (For Heat Pump & Cooling Only)

Installation Space	0.95 m^2
Product Weight*	285 kg

*For cooling only model

Line-up

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
Cooling Only/ Heat Pump	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

X' TRA POWER SAVING

New heights in energy efficiency during actual operation

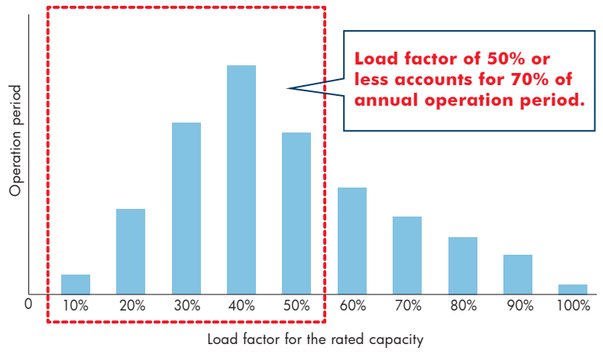
The key to innovative energy savings is to increase efficiency during low-load operation.

Using data gathered from actual operation, Daikin discovered that air conditioning systems operate at a load factor of 50% or less for 70% of their annual operation period.

This inspired us to develop new technologies to enhance energy efficiency during low loads.

Utilising these technologies, Daikin's new VRV X series raise the standard for energy efficiency.

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



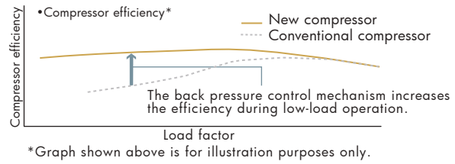
New Scroll Compressor*

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.

Hardware technology

For More information 'Scan Me'

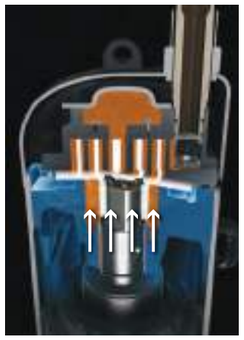


*Graph shown above is for illustration purposes only.

Back pressure control mechanism

Conventional mechanism

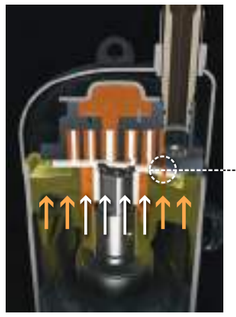
The movable scroll is pressed by the pressure difference between high and low pressures. The force pressing the movable scroll decreases during low-load operation, results in compression leakage from movable parts.



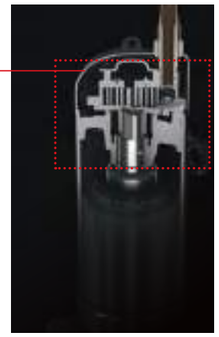
The force pressing the movable scroll decreases during low-load operation.

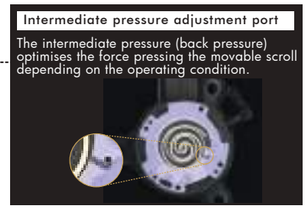
New intermediate pressure mechanism

The force pressing the movable scroll is optimised according to operating conditions. The behaviour 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.





For More information 'Scan Me'

Energy saving

VRV+VRT+VAV

Uniting advanced software and hardware technologies for greater energy savings during actual operation.

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

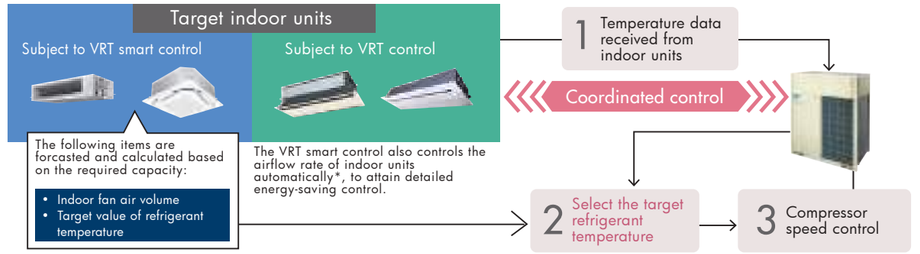
Software technology

Optimally supply only for the needed capacity of indoor units

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

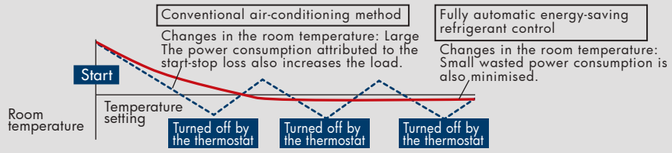
- Overview of the control (system control flow)

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 air-conditioned room temperature during low-load operation*

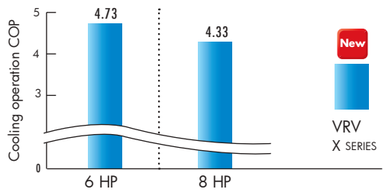


*Graph shown above is for illustration purpose only.

Note:
- For the classification of indoor units (VRT smart control and VRT control), refer to page 20.
- In case system is having both VRT Control and VRT Smart Control types of Indoor units, system will operate under VRT Control.
- If a system has air handling unit or outdoor-air processing type indoor units, VRT smart control and VRT control are disabled.

Higher efficiency is provided during rated operation.

COP at 100% operation load



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

Advanced oil temperature control

Standby power consumption is reduced

The advanced oil temperature control reduces standby power consumption compared to conventional models. Standby power is needed for preheating refrigerator oil, which consumes substantial standby power and is reduced to save energy when the air conditioner is stopped.

VRT - VARIABLE REFRIGERANT TEMPERATURE

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

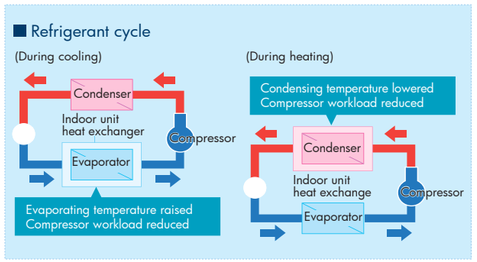
Customise your VRV system for optimal annual efficiency

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

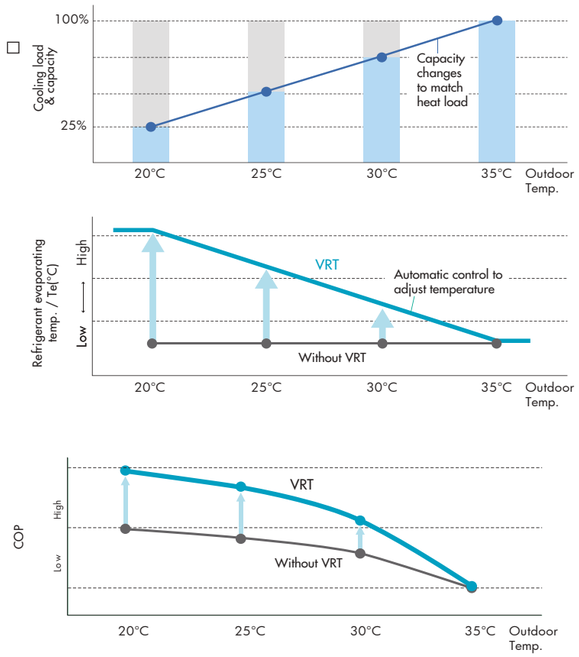
With this excellent technology, running costs are reduced.

How is energy reduced?

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



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



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

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

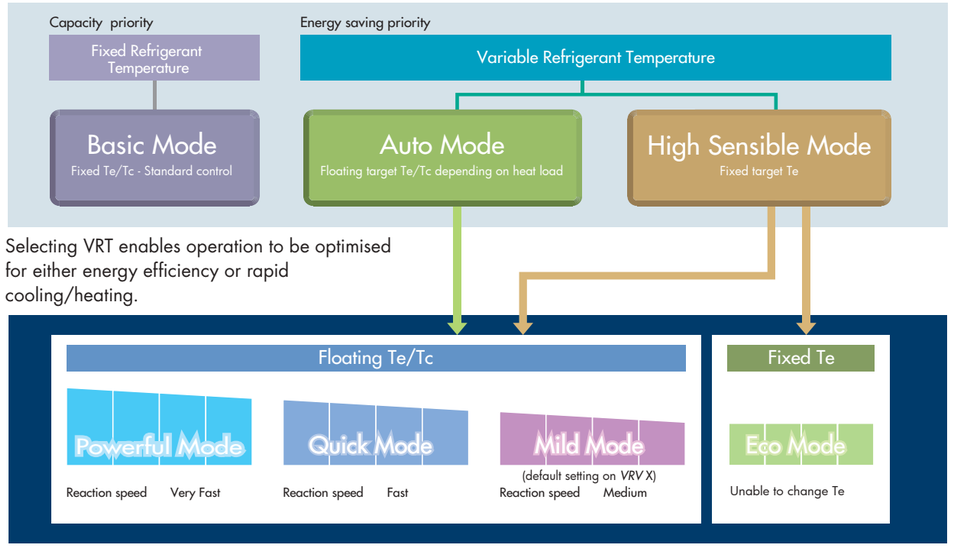
Automatic control adjusts evaporating temperature to heat load change.

Energy efficiency is improved without sacrificing comfort.

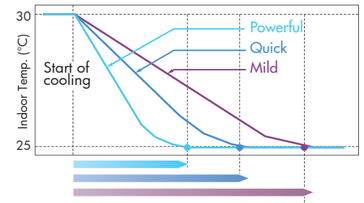
Fine control to match user preference available through mode selection

Basic mode is selected to maintain optimal comfort.

VRT is selected to save energy and prevent excessive cooling or heating.



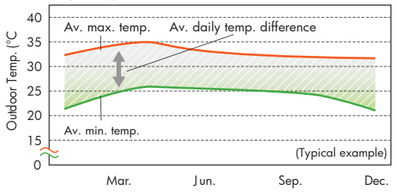
VRT offers quicker cool down to shorten uncomfortable pull down time.



Powerful mode	The refrigerant temperature can go low in cooling (high in heating) than the set minimum (maximum in heating). Gives priority to very fast reaction speed. The refrigerant temperature goes down (or up in heating) fast to keep the room setpoint stable.
Quick mode	Gives priority to fast reaction speed. The refrigerant temperature goes down (or up in heating) fast to keep the room setpoint stable.
Mild mode	Gives priority to efficiency. The refrigerant temperature goes down (or up in heating) gradually, giving priority to the efficiency of the system instead of the reaction speed.

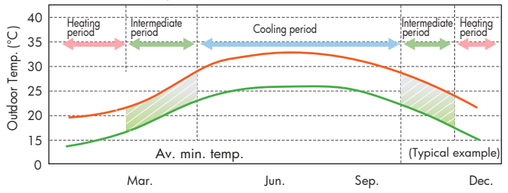
Recommended for use in these situations

☐ Cooling only regions having differences in daily temperature.



VRT is particularly effective at night when temperatures are low.

☐ Cooling/heating regions having periods of mild outdoor temperatures.



VRT is particularly effective during the intermediate periods.

X' CELLENT TECHNOLOGY

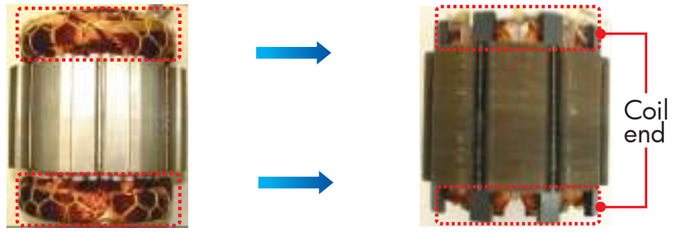
Large capacity all DC inverter compressor in compact casing

Large capacity inverter compressor using high tensile strength material, realise 12 HP compressor using 8 HP casing.

Compact & high efficiency concentrated winding motor

Distributed winding motor
(Current 8 HP compressor)

Concentrated winding motor
(New 12 HP compressor)

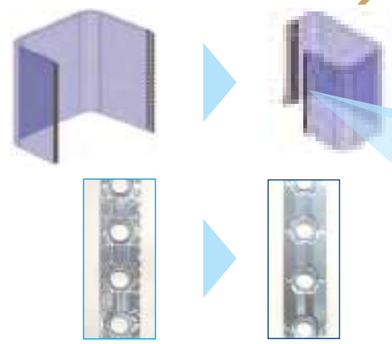


Small size coil end using concentrated winding, reduces copper loss(winding resistance).
Improves motor efficiency in low rpm range (improves intermediate efficiency).

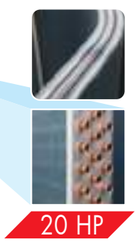
Highly integrated heat exchanger

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

Conventional



Realises highly integrated heat exchanger performance by employing 3 rows and reduced fin pitch coil as well as reduction in airflow resistance by adopting small pipe size design.

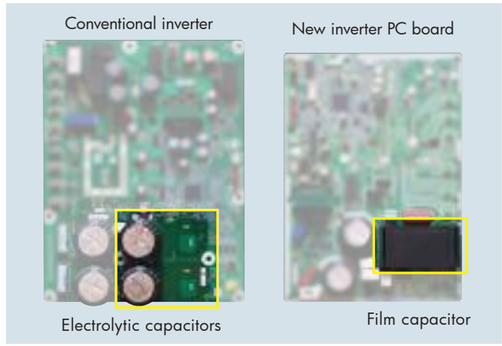


3 rows with small pipe design, increase heat transfer efficiency

4D Inverter Technology

Improved reliability by introducing Daikin 3-phase capacitor-less 4D Inverter technology

4Ds mean…
- Direct Inverter
- Dynamic
- Drive
- High Energy Density



- Direct conversion circuit which eliminates the electrolytic capacitor and minimise the reactor size
- Dynamic waveform control that suppresses the resonance phenomenon generated by miniaturizing parts
- Drive technology
- High Density integration of parts on small printed circuit board

New Inverter PC Board

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

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

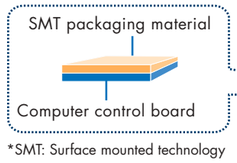
Excellent Performance

Various advanced control main PC board

SMT* packaging technology

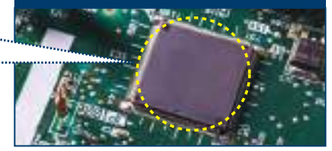
SMT packing technology adopted by the whole computer control panel improve the anti-clutter performance.

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



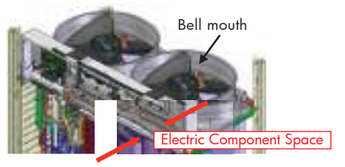
*SMT: Surface mounted technology

Computer control board surface adopting SMT packaging technology



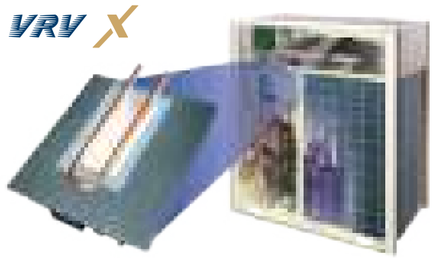
Improved inner design to increase smooth airflow

Downsizes electric component, relocates to dead space of bell mouth side to decrease airflow resistance.



ADVANCE TECHNOLOGY ACHIEVED

Excellent Performance



Refrigerant cooling technology, ensures stability of PCB temperature

Improves 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 ensures efficient and reliable operation.

Comfort

Lower operation sound

Improves heat exchanger efficiency, helps to reduce operation sound.

Large airflow, high static pressure and quiet technology.

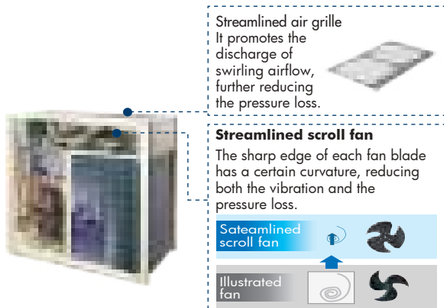
Without increasing operation sound, advanced analytic technologies are utilised to optimise fan design, increase airflow rate and external static pressure.

Sound level(dB(A))

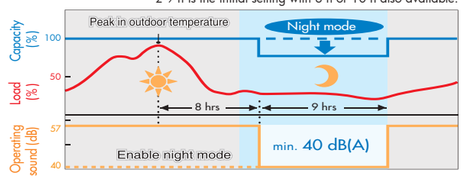
	6 HP	8 HP	10 HP	12 HP
VRV X	56	56	57	59

Quiet night-time operation function

Outdoor PCB automatically memorises the time when the peak outdoor temperature appears. It enables quiet operation mode after 8 h*1 and returns to normal mode after it keeps this on for 9 h*2.



*1 8 h is the initial setting with 6 h or 10 h also available.
*2 9 h is the initial setting with 8 h or 10 h also available.

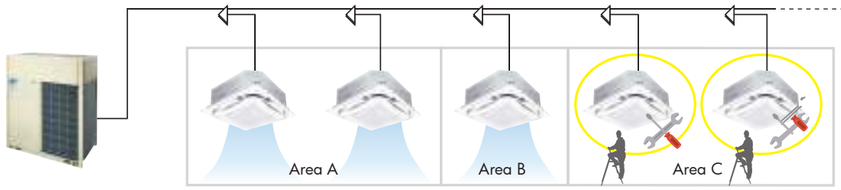


Notes:

- This function is available in field setting.
- The operating sound in quiet operation mode is the actual value measured by Daikin.
- The relationship of outdoor temperature (load) and time shown above is just an example.
- For 10 HP ODU.

Ease of Maintenance

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



* Field setting is required.

This feature does not apply to residential indoor unit connection.

For more information, please contact Daikin sales office.

X' TENDED RELIABILITY

For More information 'Scan Me'

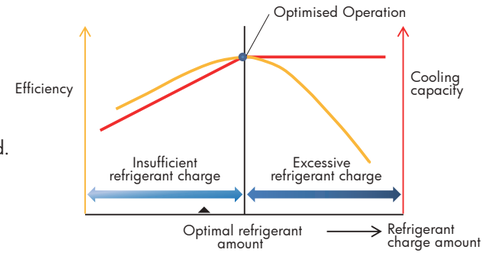
Automatic Refrigerant Charge Function

Contribute to optimised operation efficiency, higher quality and easier installation

Optimised operation efficiency

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

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



Higher quality and easier installation

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

Conventional

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

VRV X

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

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

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

Multiple Advanced Features Ensuring More Accurate Test Operation And Stable System

Efficient automatic test operation

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

Confirms and corrects the actual piping length.

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

Automatic check

Free Phase Technology

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

Simplified commissioning and after-sales service

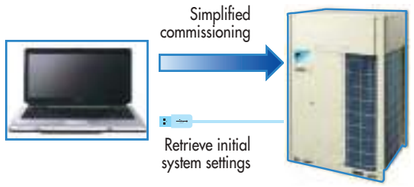
Function of information display by luminous digital tube

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

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

VRV configurator

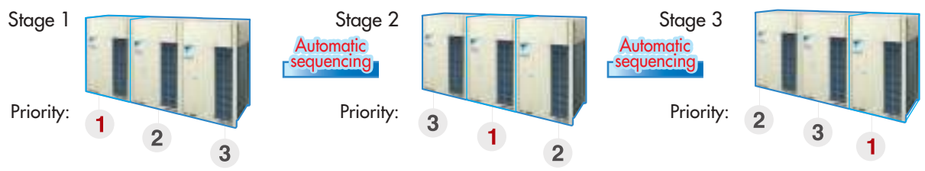
- The VRV configurator is an advanced solution that allows for easy system configuration and commissioning.
- Less time is required on the roof configuring the outdoor unit.
- Multiple system at different sites can be managed in exactly the same way, thus offering simplified commissioning for key accounts.
- Initial setting on the outdoor unit can be easily retrieved.



Outdoor unit sequencing technology

Automatic sequencing operation

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



Double back-up operation functions responding resiliently to various unexpected situations

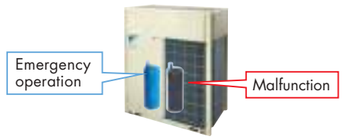
Double back-up operation functions

Daikin VRV X system boasts double back-up operation functions, which can secure the use of air conditioners in this area to the greatest extent by emergently enabling double back-up operation functions even if failure occurs in a set of air conditioning equipment. In the event of a failure, emergency operation can be enabled conveniently to allow the remaining system to operate in a limited fashion.

Compressor back-up Operation Function

If malfunction occurs in a compressor...

Emergency operation can be easily set and enabled by the outdoor unit (for a single outdoor unit system RXQ16-20ARY6 : for Cooling only model RXYQ14-20ARY6: for Heat Pump model).



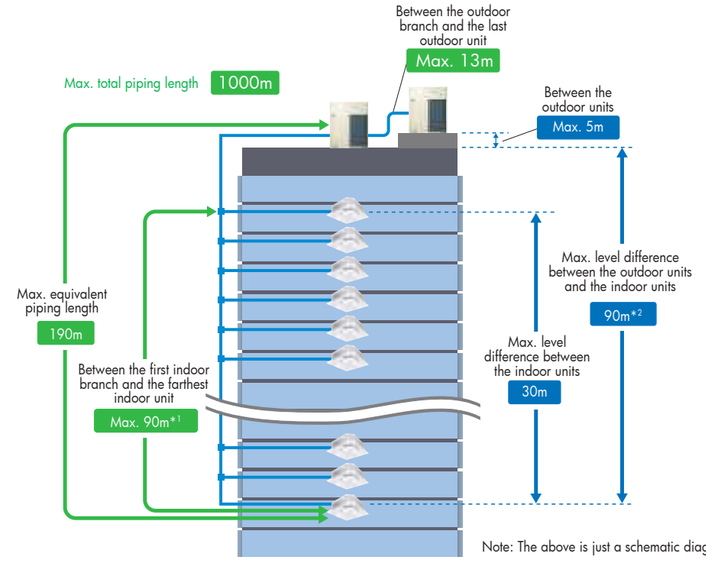
Unit back-up operation function

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

More options for installation location

Long piping length

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



Note: The above is just a schematic diagram.

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

1. No special requirements up to 40 m. The maximum actual piping length can be 90 m, depending on conditions. Various conditions and requirements have to be met to allow utilisation of 90 m piping length.
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.

Connection ratio

Connection capacity at maximum is 200%.

Connection ratio 50%–200%

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

Conditions of VRV indoor unit connection capacity

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

*1 For the FXFQ25 and FXVQ models, maximum connection ratio is 130% for the entire range of outdoor units.

Note: If the operational capacity of indoor units is more than 130%, low airflow operation is enforced in all the indoor units.
*Refer to page 65 for outdoor unit combination details.

OUTDOOR UNIT LINE-UP

High external static pressure

VRV X 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.

Outdoor Units

The outdoor unit capacity is up to 60 HP in increment of 2 HP.

- VRV X outdoor unit offers a higher capacity of up to 60 HP, responding to the needs of large-sized buildings.
- 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.

Standard Type

- Single Outdoor Units

6, 8, 10, 12 HP

RX(Y)Q6ARY6
RX(Y)Q8ARY6
RX(Y)Q10ARY6
RX(Y)Q12ARY6

14, 16 HP

RX(Y)Q14ARY6
RX(Y)Q16ARY6

18, 20 HP

RX(Y)Q18ARY6
RX(Y)Q20ARY6

- Double Outdoor Units

22, 24 HP

RX(Y)Q22ARY6
RX(Y)Q24ARY6

26, 28, 30 HP

RX(Y)Q26ARY6
RX(Y)Q28ARY6
RX(Y)Q30ARY6

- Double Outdoor Units

32, 34, 36, 38, 40 HP

RX(Y)Q32ARY6
RX(Y)Q34ARY6
RX(Y)Q36ARY6
RX(Y)Q38ARY6
RX(Y)Q40ARY6

- Triple Outdoor Units

42, 44, 46, 48, 50, 52 HP

RX(Y)Q42ARY6
RX(Y)Q44ARY6
RX(Y)Q46ARY6
RX(Y)Q48ARY6
RX(Y)Q50ARY6
RX(Y)Q52ARY6

54, 56, 58, 60 HP

RX(Y)Q54ARY6
RX(Y)Q56ARY6
RX(Y)Q58ARY6
RX(Y)Q60ARY6

Line-up

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
Cooling Only/ Heat Pump	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

INDOOR UNIT LINE-UP

Enhanced Range Of Choices

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

VRV Indoor Units

17 types 76 models

Type	Model Name	Capacity Range	0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	2.5 HP	3 HP	3.2 HP	4 HP	5 HP	6 HP	7 HP	8 HP	10 HP	16 HP	20 HP
		Capacity Index	20	25	32	40	50	63	71	80	100	125	140	170	200	250	400	500
Ceiling Mounted Cassette Round Flow & Round Flow with Sensing (Optional)	VRT FXFSQ-ARV16 VRT Smart Control			●	●	●	●	●		●	●	●	●					
Ceiling Mounted Cassette (Compact Multi Flow)	VRT FXZQ-AVM VRT Smart Control		●	●	●	●	●											
Ceiling Mounted Cassette (Double Flow)	VRT FXCQ-AVM			●	●	●	●	●		●		●						
Ceiling Mounted Cassette Corner	New FXKQ-AV				●	●	●	●										
Slim Ceiling Mounted Duct	VRT FXDQ-PDV36 (with drain pump) VRT Smart Control (700mm width type)		●	●	●													
	VRT FXDQ-NDV36 (with drain pump) VRT Smart Control (900/1,100mm width type)					●	●	●										
	VRT FXMQ-PAVE/PBV36 VRT Smart Control		●	●	●	●	●	●		●	●	●	●					
Ceiling Mounted Duct	VRT FXMQ-NVE													●	●	●		
Mid Static Ceilling Mounted Duct	VRT VRT FXMQ-ARV16					●	●	●		●	●							
Ceiling Suspended	VRT FXHQ-MAVE				●			●			●							
4-Way Flow Ceiling Suspended	VRT FXUQ-AVEB								●		●							
Wall Mounted	VRT FXAQ-ARVE6 VRT Smart Control		●	●	●	●	●	●										
Floor Standing	VRT FXLQ-MAVE				●		●	●										
Concealed Floor Standing	VRT FXNQ-MAVE				●		●	●										
Multi Cube/Spot	New FXPQ-AVM			●														
Floor Standing Duct	VRT FXVQ-NY1(6)											●			●	●	●	●
Clean Room Air Conditioner	VRT VRT FXBQ-PVE					●	●	●										
	VRT FXBPQ-PVE							●										

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

VRV Indoor Units

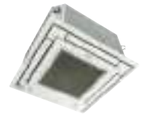
Ceiling Mounted Cassette Round Flow & Round Flow with Sensing (Optional)

FXFSQ-ARV16

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

Ceiling Mounted Cassette (Compact Multi Flow) Type

FXZQ-AVM



Quiet, compact and designed for users comfort

Ceiling Mounted Cassette (Double Flow) Type

FXCQ-AVM

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

Ceiling Mounted Cassette Corner Type

FXKQ-AV

New

Slim design for flexible installation

Slim Ceiling Mounted Duct Type

FXDQ-PDV36

FXDQ-NDV36

Slim design, quietness and static pressure switching

Ceiling Mounted Duct Type

FXMQ-PBV36

FXMQ-ARV16

FXMQ-NVE

High/Mid external static pressure allows flexible installations

4-Way Flow Ceiling Suspended Type

FXUQ-AVEB

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

Ceiling Suspended Type

FXHQ-MAVE

Slim body with quiet and wide airflow

INDOOR UNIT LINE-UP

VRV X

Floor Standing Duct Type

FXVQ-NY16
(High static pressure type)

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

Floor Standing Type

FXLQ-MAVE

Concealed Floor Standing Type

FXNQ-MAVE

Suitable for perimeter zone air conditioning

Wall Mounted Type

FXAQ-ARVE6

Stylish flat panel design harmonised with your interior décor

Clean Room Air Conditioner

FXBQ-PVE

FXBPQ-PVE

Suitable for hospitals and other clean spaces

Multi Cube (Spot AC) Type

FXPQ-AVM

New

New Solution in Large Space Comfort

VRV Indoor Units

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

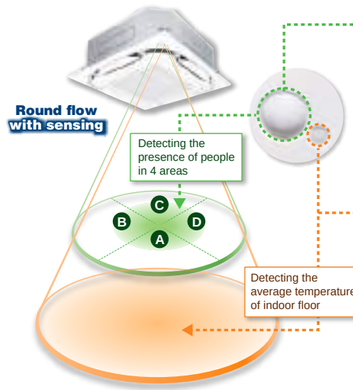
FXFSQ25A / FXFSQ32A / FXFSQ40A / FXFSQ50A / FXFSQ63A / FXFSQ80A / FXFSQ100A / FXFSQ125A / FXFSQ140A

VRT Smart Control

Round flow with sensing (Optional)

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

Dual sensors*1



Infrared presence sensor

The 4 sensors detect human presence.

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

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

Infrared floor sensor

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

Ceiling height	2.7m	3.5m	4.0m
Detection range (diameter)*4	approx. 11m	approx. 14m	approx. 16m

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

Various sensing functions

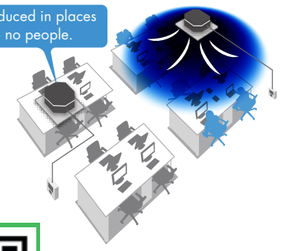
Sensing sensor mode*5*6

Sensing sensor low mode (default: OFF)

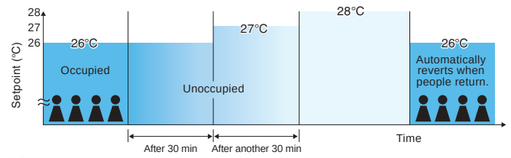
When there are no people in a room, the set temperature is shifted automatically.

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

Operation is reduced in places where there are no people.



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



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

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

For More information 'Scan Me'

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

VRV Indoor Units

Sensing sensor stop mode (default: OFF)

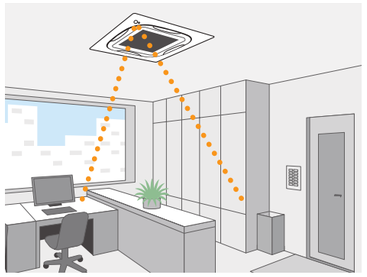
When there are no people in a room, the system stops automatically.*7

The system automatically saves energy by detecting whether or not the room is occupied.

Based on preset user conditions, the system automatically stops operation if the room is unoccupied.

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

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

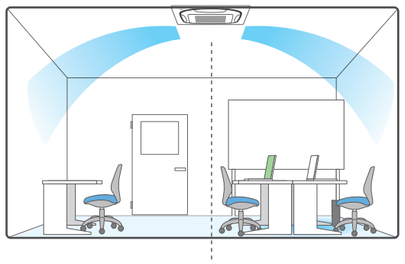


Auto airflow function*8

*8.Airflow direction shoud be set to “Auto”.

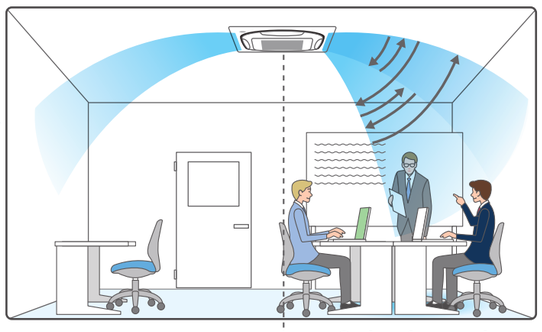
New Direct Airflow (default: OFF) Cooling Dry

When human presence is not detected



Optimal air direction by “Auto”

When human presence is detected



Optimal air direction by “Auto” Swing (narrow)

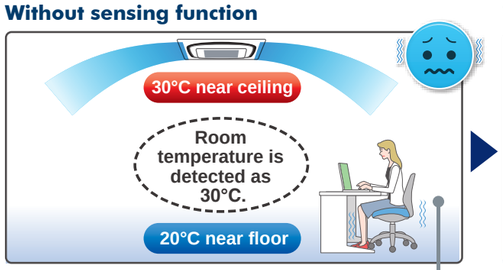
- With Auto airflow direction mode, flaps are controlled to deliver optimal airflow when the room is unoccupied.
- When human is detected, air direction is set to “Swing (narrow)” to deliver cool air to users.

Comfort and energy saving preventing over cooling*9

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

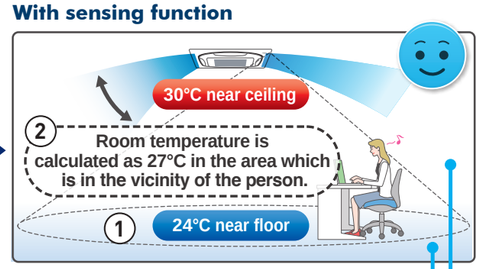
Floor temperature is detected and over cooling prevented. Cooling

Without sensing function



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

With sensing function



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

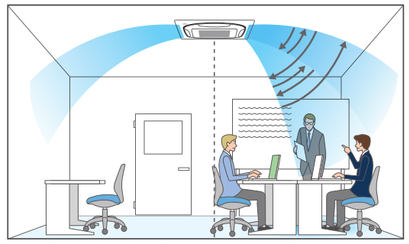
Automatic control using the temperature near the person as the room temperature.

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

New Circulation Airflow

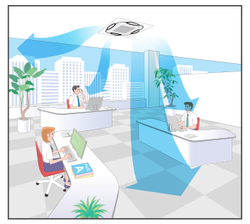
The illustration shows typical airflow. Effectiveness may differ according to room conditions, room size and distance to walls.

New Direct Airflow



Optimal air direction by “Auto” Swing (narrow)

Individual Airflow Direction Control



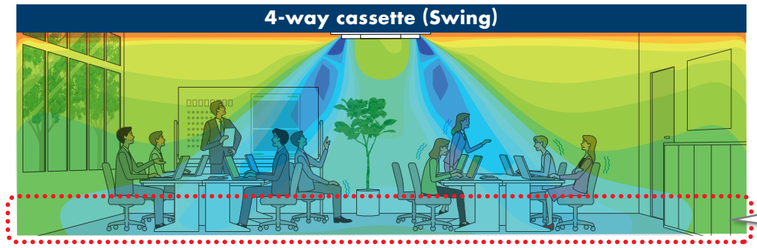
The illustration shows typical airflow.

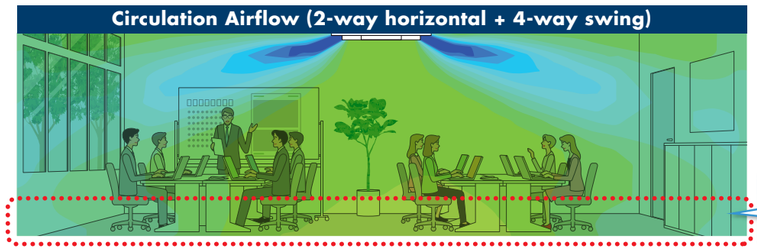
Circulation Air Flow

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

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

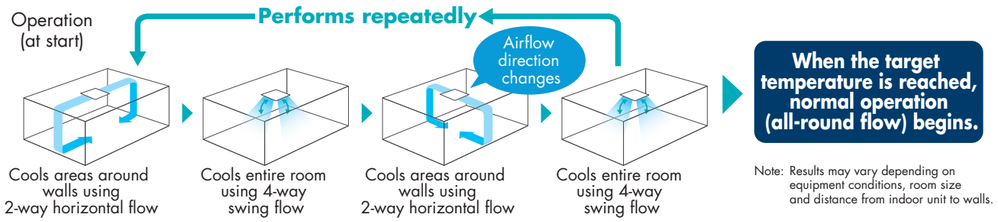
Comfort to the entire room with even temperatures and no cold air pockets at floor level





*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)

Configurations of Circulation Airflow



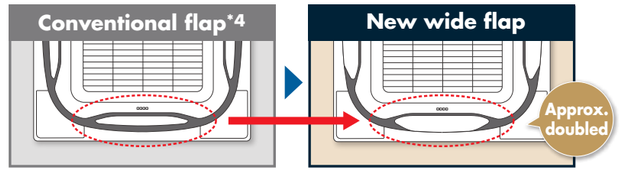
Note: Results may vary depending on equipment conditions, room size and distance from indoor unit to walls.

Three technologies that achieved circulation airflow

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

1 Use of new wide flaps (Straight)

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



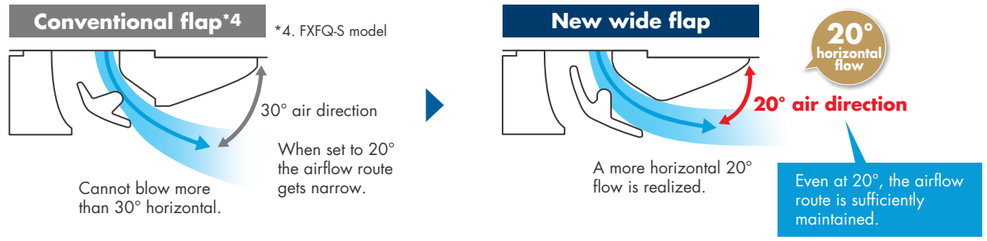
*4. FXFQ-S model

New wide flap construction inhibits ceiling dirt and grime

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

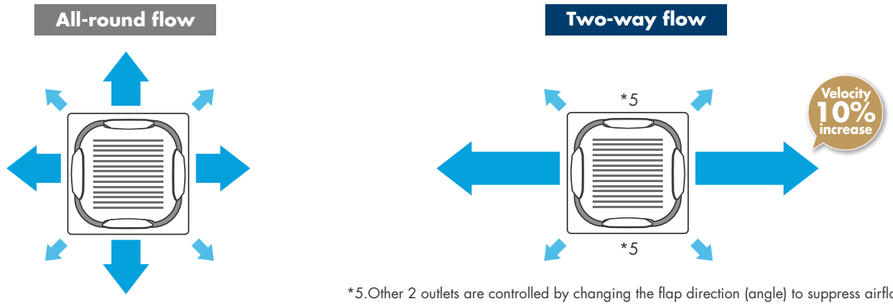
2 Optimising airflow angle (Horizontally)

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



3 Increased velocity in 2-way flow (Strongly)

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



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

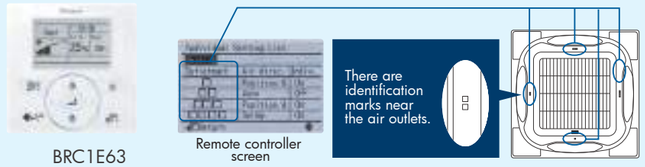
INDOOR UNIT LINE-UP

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

Comfortable air conditioning for all room layouts and conditions

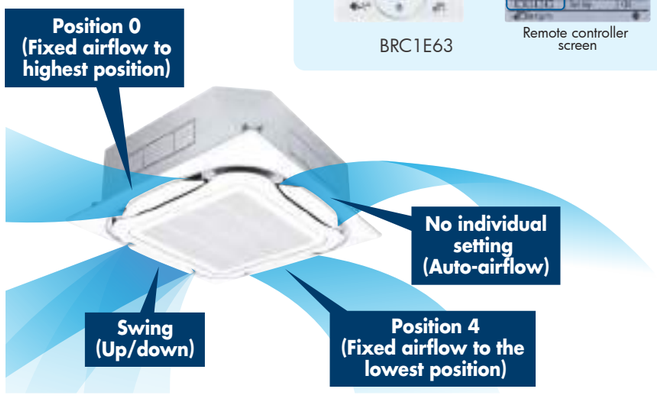
Airflow direction can be individually adjusted for each air discharge outlet to deliver optimal air distribution.

Easy setting is possible with a wired remote controller.



BRC1E63

Remote controller screen



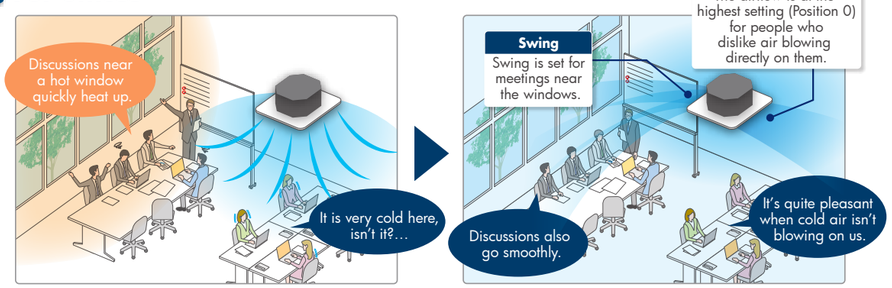
Individual airflow settings

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

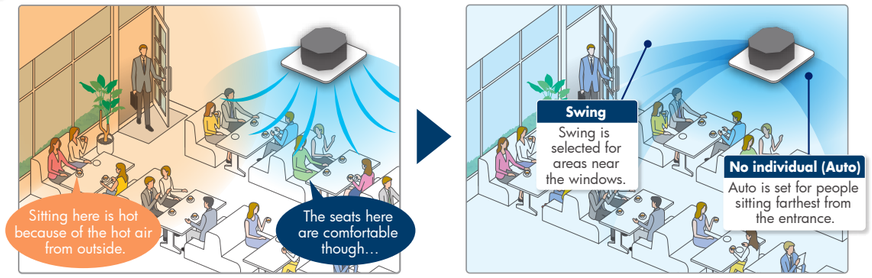
Individual settings are possible as stated above.

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

For offices



For shops and restaurant

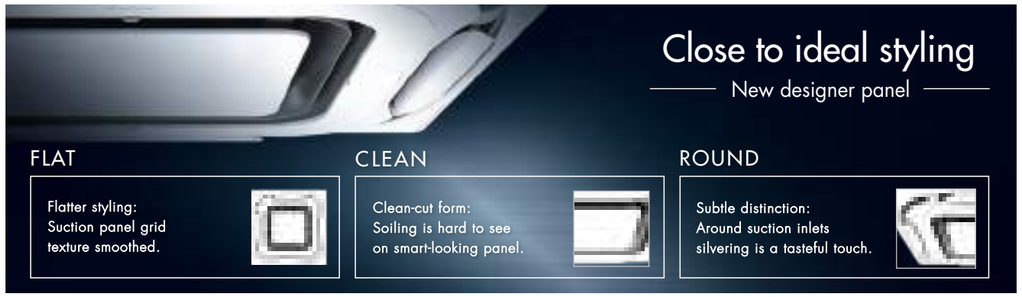


New Wide variety of decoration panels (Option)

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

Standard panel with sensing — Designer panel*2 — Standard panel*2

New Designer panel (Option)



Decoration Panel Line-up (Option)

Standard panel*1
BYCQ125EAF6 (Fresh White)

Standard panel*1
BYCQ125EAK (Black)

Designer panel*1
BYCQ125EAPF (Fresh White)

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

Sensing panel
BYCQ140EEF6 (Fresh White)

Sensing panel
BYCQ125EEK (Black)

New Auto grille panel (Option)*1

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

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

For these situations recommended

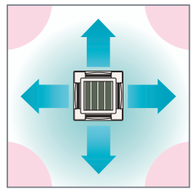
- Where the air is dusty and likely to soil the air conditioner.
- Where simple and quick filter and grille cleaning is a worthwhile benefit.

Auto grille panel*1
BYCQ125EASF (Fresh White)

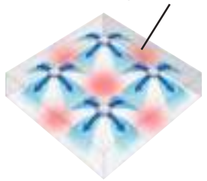
INDOOR UNIT LINE-UP

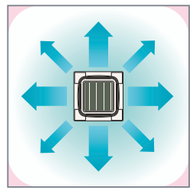
Comfortable airflow

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



There are areas of uneven temperature.

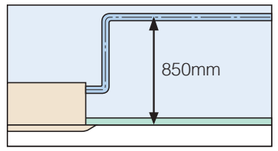




There are much fewer areas of uneven temperature.

Easy installation

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



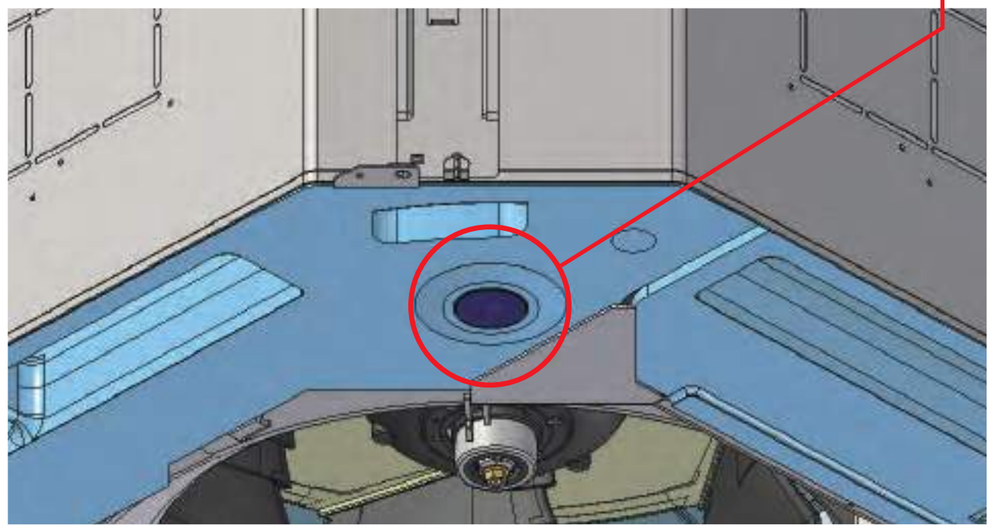
Easy maintenance

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

New

- 24mm diameter drain outlet

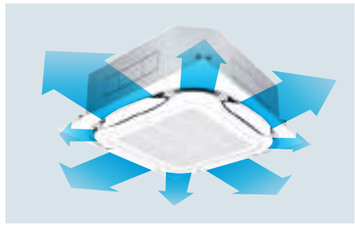
The drain outlet allows insertion of a finger or dental mirror for inspection of the internal cleanliness of the drain pan. Removal of the suction panel enables access.



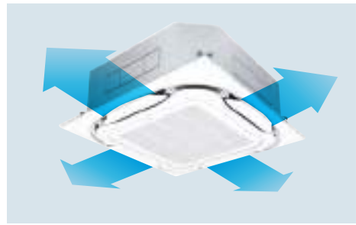
Example of airflow patterns

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

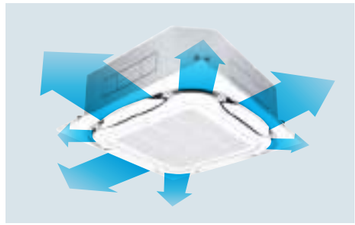
All-round flow



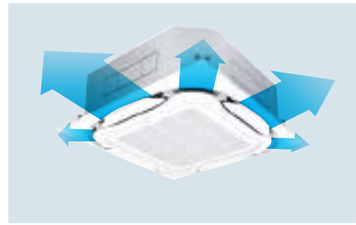
4-way flow



3-way flow



L-shaped 2-way flow



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

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

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

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

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

New

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

VRV Indoor Units

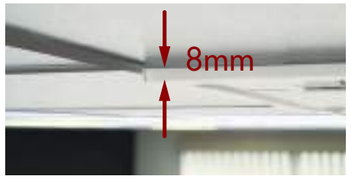
Ceiling Mounted Cassette (Compact Multi Flow Cassette) **Type**

FXZQ20AVM / FXZQ25AVM / FXZQ32AVM / FXZQ40AVM / FXZQ50AVM

VRT Smart Control

*FXZQ-A

Quiet, Compact, Designed for user comfort



Compact & Elegant Design

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

Remarkable blend of iconic design and engineering excellence with an elegant finish in white

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

Efficiency & Comfort

Two optional intelligent sensors improve energy efficiency and comfort.

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

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

Auto swing (up/down)

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

Ceiling soiling prevention

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

Reduced energy consumption, thanks to the specially developed small tube heat exchanger, DC fan motor, and drain pump Optional fresh air intake kit.

VRV Indoor Units

Ceiling Mounted Cassette (Double Flow) **Type**

FXCQ25AVM / FXCQ32AVM / FXCQ40AVM / FXCQ50AVM / FXCQ63AVM / FXCQ80AVM / FXCQ125AVM

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

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

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

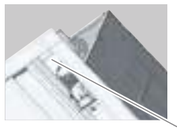
Individual flap control

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

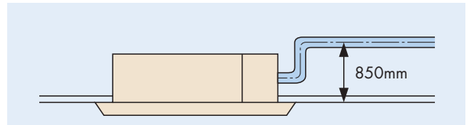
- Reduced energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump.

Enhanced functions from various aspects such as maintenance

- Check contamination in drain pan by simply remove suction grille and panel.
- The flap parts are easy to clean because it is hard to condensate and get dirty.
- Equipped with long life filter which requires only 1-year maintenance interval.
- Adjuster pockets mount at four corners of the unit enable to adjust the main unit without removing the panel.
- Drain pump is equipped as standard accessory with 850mm lift.



Adjuster Pocket



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

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

Drain socket part

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

VRV Indoor Units

Ceiling Mounted Cassette Corner Type

FXKQ32AV / FXKQ40AV
FXKQ50AV / FXKQ63AV

This new Indoor unit has been awarded with Good Design Award

GOOD DESIGN

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

White Color Panel

Silver Color Panel

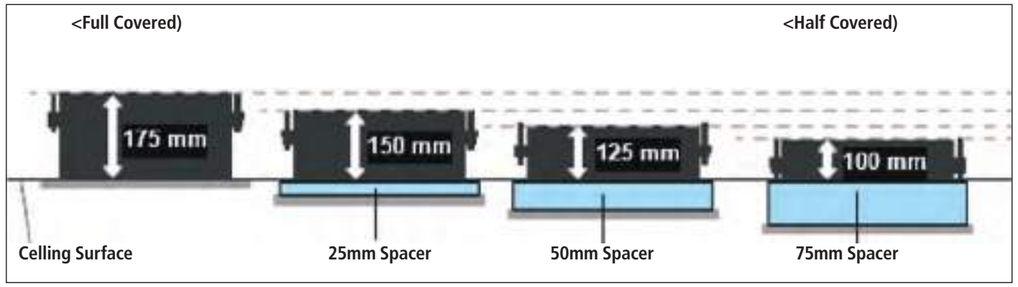
VRV Indoor Units

Installation with Panel Spacers

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

Note- Spacer colour- Dark gray

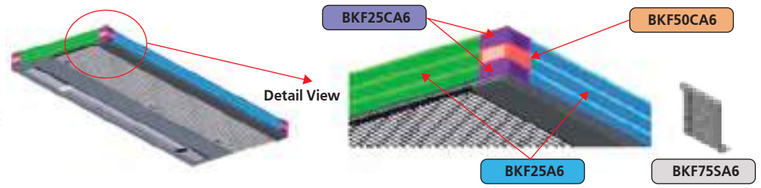
Standard Ceiling Height
175mm (6.88 Inches)
145mm IDU height + 30mm clearance
→ Reduced by 25mm
150mm (5.9 Inches)
→ Further Reduced by 25mm
125mm (4.9 Inches)
→ Further Reduced by 25mm
100mm (3.9 Inches)



Optional List **Spacer Kit Detail:**

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

75mm Spacer



VRV Indoor Units

Slim Ceiling Mounted Duct Type

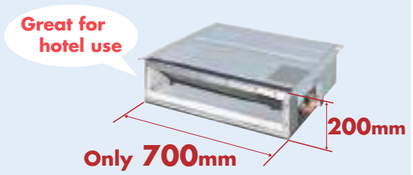
FXDQ20PD / FXDQ25PD / FXDQ32PD
FXDQ40ND / FXDQ50ND / FXDQ63ND

VRT Smart Control

Slim design, quietness and static pressure switching

Suited to use in drop-ceilings

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



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

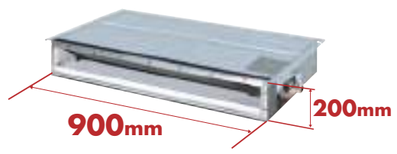
Low operation sound level (dB(A))

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

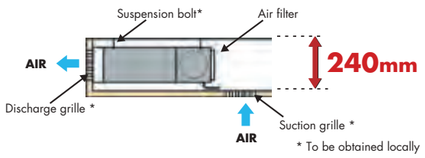
* The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).

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

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



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

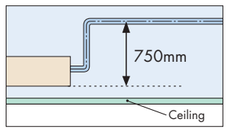


- External static pressure selectable by remote controller switching makes this indoor unit a very comfortable and flexible model.

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

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

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



VRV Indoor Units

High Static Pressure Ceiling Mounted Duct Type

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

VRT Smart Control

High static pressure allows for flexible duct design

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

  30 Pa-100 Pa for FXMQ20P-32P

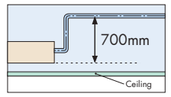
  30 Pa-160 Pa for FXMQ40P

  50 Pa-200 Pa for FXMQ50P-125P

  50 Pa-140 Pa for FXMQ140P

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

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



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

Low operation sound level (dB(A))

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

Energy-efficient

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

Improved ease of installation

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

Improved ease of maintenance

- The drain pan can be detached for easy cleaning. An antibacterial treatment that uses silver ions has been applied to the drain pan, preventing the growth of slime, mould and bacteria that cause blockages and odours.

FXMQ170N/FXMQ200N
FXMQ250N

Simplified Static Pressure Control

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

VRV Indoor Units

Mid Static Pressure Ceiling Mounted Duct Type

FXMQ40A / FXMQ50A / FXMQ63A
FXMQ80A / FXMQ100A

Mid static pressure allows for flexible duct design

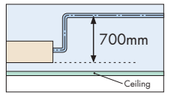
- AC fan motor is installed to suit applications where external static pressure is required at nominal capacity.

  30 Pa-50 Pa for FXMQ40-80ARV16

  30 Pa-60 Pa for FXMQ100ARV16

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

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



High airflow rate

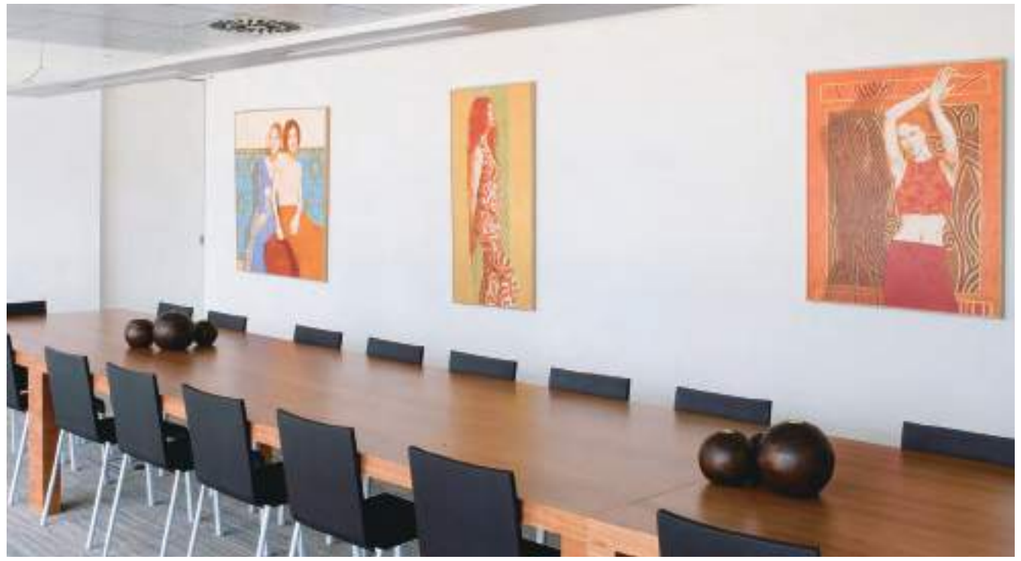
Airflow rate is optimised to meet wider spectrum of airflow requirements.

Low operation sound level (dB(A))

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

Improved ease of maintenance

- The drain pan can be detached for easy cleaning. An antibacterial treatment that uses silver ions has been applied to the drain pan, preventing the growth of slime, mould and bacteria that cause blockages and odours.



VRV Indoor Units

Ceiling Suspended Type

FXHQ32 / 63 / 100MA

FXHQ125 / 140A

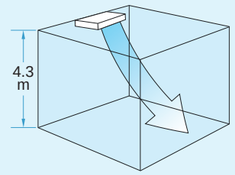
Slim body with quiet and wide airflow

New 125 / 140 models provide greater capacity for large spaces

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

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

- Suitable for high ceilings

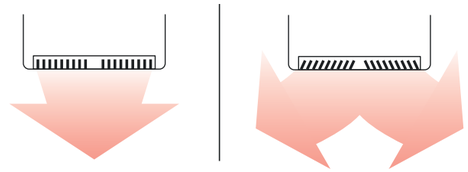


- Switchable fan speed: 3 steps
  - Control of airflow rate has been improved from 2-step to 3-step.

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

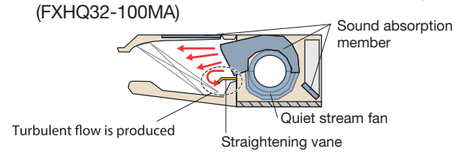
Comfort

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



Quiet operation

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



dB(A)

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

VRV Indoor Units

Wall Mounted Type

FXAQ20A / FXAQ25A
FXAQ32A / FXAQ40A
FXAQ50A / FXAQ63A

Stylish flat panel design harmonised with your interior décor

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

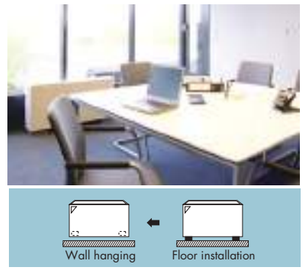
VRV Indoor Units

Floor Standing Type

FXLQ32MA / FXLQ50MA
FXLQ63MA

Suitable for perimeter zone air conditioning

- Floor Standing types can be hung on the wall for easier cleaning. Running the piping from the back allows the unit to be hung on walls. Cleaning under the unit, where dust tends to accumulate, is considerably easier.
- The adoption of a fibre-less discharge grille, featuring an original design to prevent condensation, also helps prevent staining and makes cleaning easier.
- A long-life filter is equipped as standard accessory.
  *8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m^3

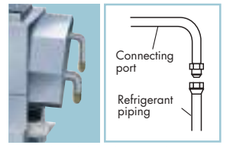


Concealed Floor Standing Type

FXNQ32MA / FXNQ50MA
FXNQ63MA

Designed to be concealed in the perimeter skirting-wall

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



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

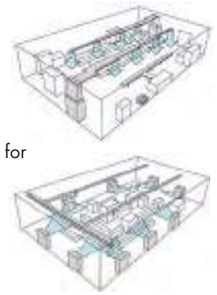
VRV Indoor Units

Floor Standing Duct Type

FXVQ125N / FXVQ200N
FXVQ250N / FXVQ400N
FXVQ500NY16

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

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



Duct connection airflow type

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

  * Note that the operation sound increases by approximately 5 dB(A).

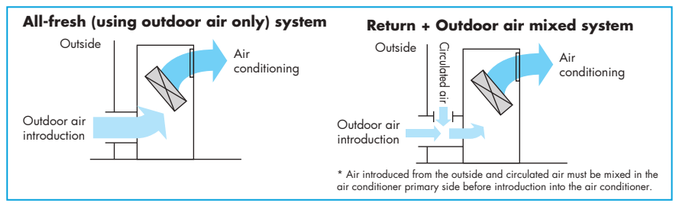
Direct airflow type

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

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

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

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



VRV Indoor Units

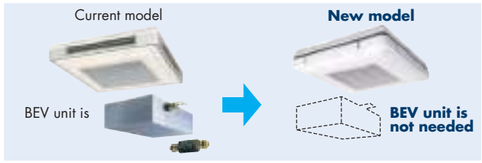
4-Way Flow Ceiling Suspended Type

FXUQ71A / FXUQ100A

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

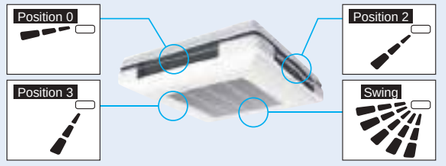
- Unit body and suction panel adopted round shapes and realized a slim appearance design. The unit can be used for various locations such as the ceilings with no cavity and bore ceilings.
- Flaps close automatically when the unit stops, which gives a simple appearance.
- Unified slim height of 198mm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

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

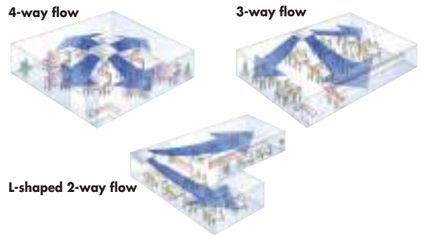


- With adoption of the individual flap control, airflow direction adjustment can be individually set for each air outlet. Five directions of airflow and auto-swing can be selected with wired remote controller BRC1E62, which realizes the optimum air distribution.

Individual airflow direction example case



- Control of the airflow rate has been improved from 2-step to 3-step control. Auto airflow rate control can be selected with wired remote controller BRC1E62.
- Energy efficiency has been improved, thanks to the adoption of new heat exchanger with smaller tubes, DC fan motor and DC drain pump motor.
- Drain pump is equipped as a standard accessory and the lift height has been improved from 500mm to 600mm.
- Depending on the installation site requirements or room conditions, 2-way, 3-way and 4-way discharge patterns are available.



VRV Indoor Units

Clean Room Type Air Conditioner

FXBQ40/FXBQ50
FXBQ63/FXBPQ63

Suitable for hospitals and other clean spaces

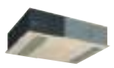
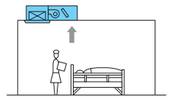
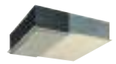
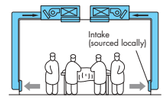
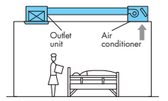
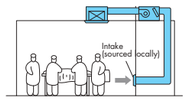
Easily provides the high cleanliness environment required by various industries

Daikin's clean room air conditioners are specially designed to achieve an environment cleanliness class 10,000. These air conditioners easily realize a cleanliness-class environment and help create a proper environment of hospitals, food and beverage factories, electronics factories and other spaces that require clean air.

Select the air flow system and installation method to match the layout and purpose of the room

Two types of clean room air conditioners are available – an integrated unit model and a separate outlet unit model. It is also possible to configure the air flow system to ceiling intake or floor-level intake according to the panel selected. This flexible design enables the air conditioner to easily adopt to any room layout or use.

Instances of installation by type (for a hospital)

Type		Ceiling intake type (high speed contracted flow/high ceiling model)	Floor-level intake type (gentle wind distribution/high cleanness class model)
Features		Construction work is simple and a ceiling installation is possible. Dust filtering and air-conditioning can be started immediately.	Easy to increase the cleanness and air-conditioning effect. A low flow speed prevents drying of the affected part and the experience of drafts.
Cleanness class*1		100,000 to 10,000	10,000
Wind speed		1.0m/s or higher	Approximately 0.5m/s
Blow method	Integrated outlet unit model	• Concentrated air conditioning centered directly under the unit • Easy installation   Applications: Surgery prep rooms, recovery rooms, nurse stations, etc.	• Total air conditioning with an emphasis on cleanliness   Applications: Operating theatres, delivery rooms, etc.
	Separate outlet unit model	• Somewhat concentrated air conditioning centered directly under the outlet • Can provide air conditioning in rooms with irregular shapes   Applications: CCU*2, sterile rooms, etc.	• Total air conditioning with an emphasis on cleanliness • Maintenance possible from a different room   Applications: Premature nurseries, newborn nurseries, ICU*3, etc.

*1. Cleanliness class. A scale expressing the cleanliness of air established by NASA (National Aeronautics and Space Administration). Class 10,000 represents a state of less than 10,000 minute particles of diameter under 0.5 µm per cubic foot. For comparison, the cleanliness of a typical office is around class 1,000,000.
*2. CCU (Cardiac Care Unit). A ward dedicated to the admission of patients with myocardial infarctions and other heart diseases.
*3. ICU (Intensive Care Unit). A ward for the careful treatment and nursing of patients with serious illnesses, injuries, or recovering from operations.

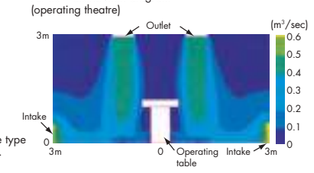
Can be easily installed in existing buildings

A simple structure makes it easy to realize a highly clean environment with the same installation work as for a typical air conditioner. Can be easily installed in new buildings, existing structures and refurbishments.

Prevents uncomfortable drafts with a low flow speed of approximately 0.5m/s

The floor-level intake system has a low flow speed of approximately 0.5 m/s, improving dust filtration and eliminating the feeling of drafts. Broadly air-conditions the room with a gentle air flow and creates a comfortable environment.

• Air flow distribution diagram (operating theatre)



*Analysis of the floor-level intake type with the integrated outlet model.

FXB(P)Q-P

Filtration

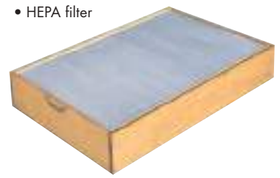
Class 10,000 clean room condition achieved with a HEPA filter (sold separately)

The low pressure-loss HEPA filter (sold separately) demonstrates superior dust filtering performance and easily accomplishes an air cleanliness of class 10,000.

The HEPA filter has a structure incorporating a pleated glass fibre filter medium, making it highly efficient and suitable for clean rooms, etc.

*It may not be possible to maintain cleanliness in rooms with low air tightness.

• HEPA filter



Installation example (in a medical facility)

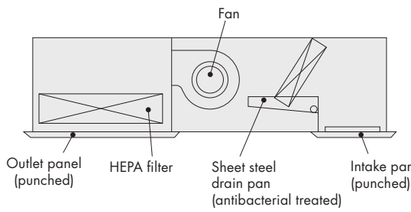
Antibacterial

Suppresses the propagation of bacteria in the duct with a proprietary antibacterial coating

The filter implements an antibacterial treatment with a new coating, combining a silver-based inorganic antibacterial material (an organic antibacterial material that is effective against germs) that prevents mould. This enhances the antibacterial properties of the duct. An antibacterial treatment using a silver-based organic substance reduces mould.

Antibacterial fibre used in the intake filter

With a long-life filter employing anti-mould antibacterial fibre near the intake, cleaning performance is further enhanced.



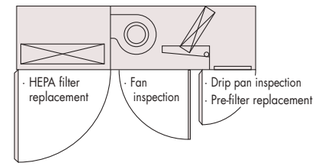
* Please be aware that antibacterial products suppress the propagation of bacteria but do not have a sterilising effect. Also, mould may grow in places where dust or soot accumulates.
* A material for which the registered safety was verified by Japanese chemicals and dangerous substances regulation law (Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.) is used for the antibacterial material.
* Periodic maintenance is required (such as cleaning the air filter and washing the inside to the unit).

Labour-saving

Filter maintenance unnecessary for about five years
Easy access from underneath unit provides easy maintenance

The HEPA filter has an exceptionally long life and does not require maintenance for about five years. Daikin has aimed to reduce maintenance work from a variety of perspectives, including a service access system that eliminates the necessity for service panels.

*The maintenance period differs significantly according to the cleanliness of the room and hours of air conditioner operation.



Quiet

All models incorporate an industry-leading quiet design, operating at under 41dB

Operating noise is substantially reduced by employing a proprietary double-structure outlet filter chamber, sound absorbing insulation and a low pressure-loss HEPA filter. Sound level of all models are under 41dB (38dB during low-fan speed operation).

*Operating noise may be greater than these values in highly reflective locations.

VRV Indoor Units

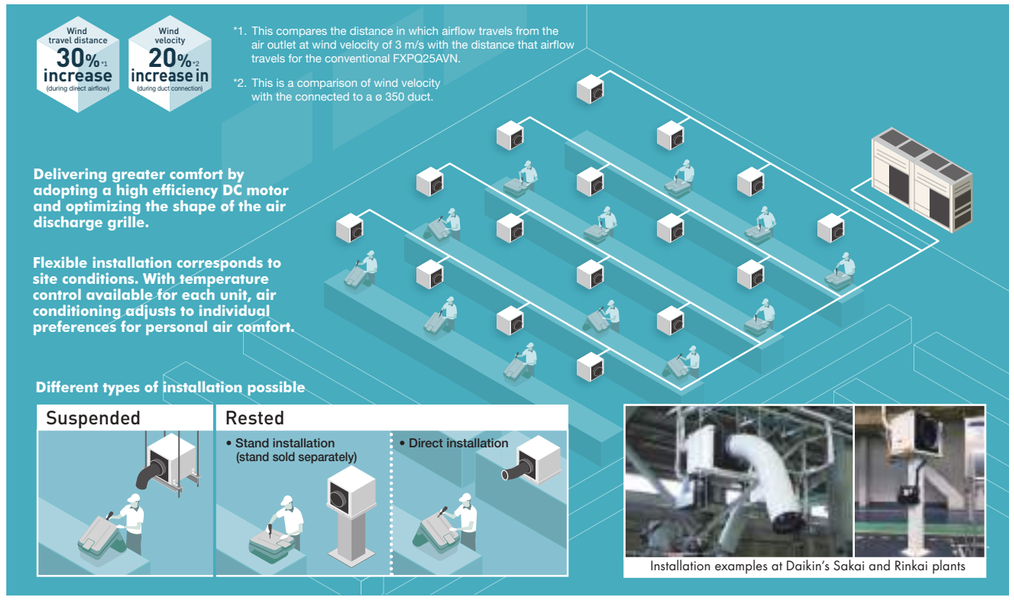
Multi Cube (Spot AC) type for VRV system

FXPQ25AVM

New

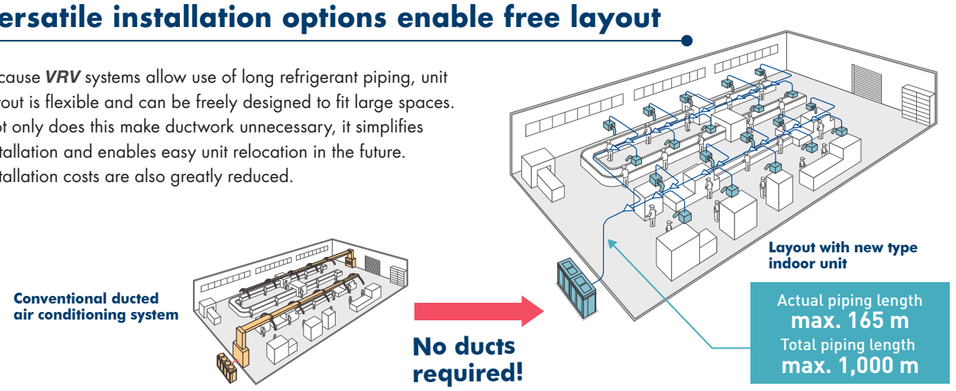
Personal Air Comfort Delivered to Large Spaces

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



Versatile installation options enable free layout

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



VRV Indoor Units

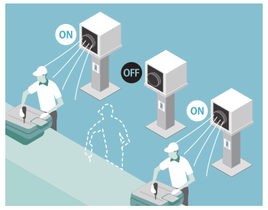
Easy relocation/expansion

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

Adjustable comfort for individual users

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

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



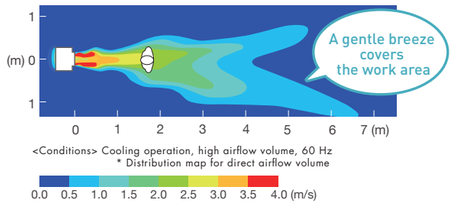
Delivering comfort with a large volume of air

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

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

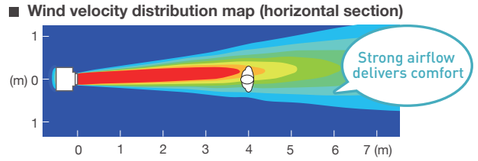
Comfort for people nearby Standard type

■ Wind velocity distribution map (horizontal section)



Comfort for people far away Long-distance type *6

■ Wind velocity distribution map (horizontal section)



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

Designed for installation in any environment

Withstands oil mists

For the heat exchanger cooling pipe, a material with **3 to 6 times*7 the durability** of standard materials has been selected.

Condensation suppression

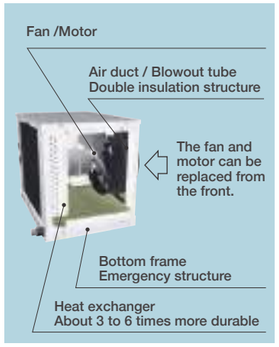
To **minimize condensation,** the air duct and blowout tubes are **double insulated.** This enables use in kitchens and other highly humid environment.

Leakage failsafe

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

Simple maintenance

Easy maintenance design includes front access for fan motor replacement.



VRV X

SPECIFICATIONS

VRV Indoor Units

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

MODEL			FXFSQ25ARV16	FXFSQ32ARV16	FXFSQ40ARV16	FXFSQ50ARV16	FXFSQ63ARV16	FXFSQ80ARV16	FXFSQ100ARV16	FXFSQ125ARV16	FXFSQ140ARV16
Power supply			1-phase, 220-240V, 50Hz								
Cooling capacity		Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800	54,600
		kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0
Heating capacity		Btu/h	10,900	13,600	17,100	21,500	27,300	34,100	42,700	54,600	54,600
		kW	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0	16.0
Casing			Galvanised steel plate								
Airflow rate (H/HM/M/ML/L)		m^3/min	13/12.5/11.5/11/10		17/13.5/12.5/12/11	23/20.5/19/14.5/11	23.5/21/20/16/13.5	24.5/22/20.5/20/15	33.5/30.5/27/23.5/21	34.5/31.5/28.5/25.5/23	35.5/32.5/29.5/26.5/23
		cfm	459/441/406/388/353		600/477/441/424/388	812/724/671/512/388	830/742/706/565/477	865/777/724/706/530	1,183/1,077/954/830/742	1218/1112/1006/901/812	1,254/1,148/1,042/936/812
Sound level (H/HM/M/ML/L)		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	256×840×840						298×840×840		
Machine weight		kg	19			22			25		26
Piping connections	Liquid (Flare)	mm	Ø 6.4				Ø 9.5				
	Gas (Flare)		Ø 12.7				Ø 15.9				
	Drain		VP25 (External Dia, 32/Internal Dia, 25)								
Standard Panel (Non Sensing) (White)	Model		BYCQ125EAF6 (Fresh White)								
	Dimensions (HxWxD)	mm	50x950x950								
	Weight	kg	5.5								
Sensing Panel (White)	Model		BYCQ140EEF6 (Fresh White)								
	Dimensions (HxWxD)	mm	50x950x950								
	Weight	kg	5.5								

Note: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°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.

For More information 'Scan Me'

Decoration Panel (Option)

			Round Flow Type
			FXFSQ-A
Standard panel	Model		BYCQ125EAF6 (Fresh White) / BYCQ125EAK (Black)
	Dimensions (HxWxD)	mm	50×950×950
	Weight	kg	5.5
Sensing panel	Model		BYCQ140EEF6 (Fresh White) / BYCQ125EEK
	Dimensions (HxWxD)	mm	50×950×950
	Weight	kg	5.5
Designer panel	Model		BYCQ125EAPF (Fresh White)
	Dimensions (HxWxD)	mm	97×950×950
	Weight	kg	6.5
Auto grille panel	Model		BYCQ125EASF (Fresh White)
	Dimensions (HxWxD)	mm	105×950×950
	Weight	kg	8

Standard panel
BYCQ125EAF6 (Fresh White)

Standard panel
BYCQ125EAK (Black)

Designer panel
BYCQ125EAPF (Fresh White)

Sensing panel
BYCQ140EEF6 (Fresh White)

Sensing panel
BYCQ125EEK (Black)

Auto grille panel*2
BYCQ125EASF (Fresh White)

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

VRV Indoor Units

Ceiling Mounted Cassette (Compact Multi-Flow) Type

MODEL			FXZQ20AVM	FXZQ25AVM	FXZQ32AVM	FXZQ40AVM	FXZQ50AVM
Power supply			1-Phase, 220-240 V, 50Hz				
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100
		kW	2.2	2.8	3.6	4.5	5.6
Heating capacity		Btu/h	8,500	10,900	13,600	17,100	21,500
		kW	2.5	3.2	4.0	5.0	6.3
Casing			Galvanised steel plate				
Airflow rate (H/M/L)		m^3/min	8.7/7.5/6.5	9.0/8.0/6.5	10.0/8.5/7.0	11.5/9.5/8.0	14.5/12.5/10.0
		cfm	307/265/229	318/282/229	353/300/247	406/335/282	512/441/353
Sound level (H/M/L)		dB(A)	32.0/29.5/25.5	33.0/30.0/25.5	33.5/30.0/26.0	37.0/32.0/28.0	43.0/40.0/33.0
Dimensions (HxWxD)		mm	260x575x575 (For depth add 63mm for electrical box)				
Machine weight		kg	15.5		16.5		18.5
Piping connections	Liquid (Flare)	mm	φ6.4				
	Gas (Flare)		φ12.7				
	Drain		VP20 (External Dia. 26/Internal Dia. 20)				

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

Ceiling Mounted Cassette (Double Flow) Type

MODEL			FXCQ25AVM	FXCQ32AVM	FXCQ40AVM	FXCQ50AVM	FXCQ63AVM	FXCQ80AVM	FXCQ125AVM
Power supply			1-phase, 220-240 V/50 Hz						
Cooling capacity		Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	47,800
		kW	2.8	3.6	4.5	5.6	7.1	9.0	14.0
Heating capacity		Btu/h	10,900	13,600	17,100	21,500	27,300	34,100	54,600
		kW	3.2	4.0	5.0	6.3	8.0	10.0	16.0
Casing			Galvanised steel plate						
Airflow rate (HH/M/L)		m^3/min	11.5/10.5/9.5/8.5/8		12/11/10.5/9.5/8.5	15/14/13/11.5/10.5	16/15/14/12.5/11.5	26/24/22.5/20.5/18.5	32/29.5/27.5/25/22.5
		cfm	406/371/335/300/282		424/388/371/335/300	530/494/459/406/371	565/530/494/441/406	918/847/794/724/653	1130/1041/971/883/794
Sound level (H/L) 220 V		dB(A)	34/33/31/30/29	34/33/32/31/30	36/35/33/32/31	37/36/35/33/31	39/38/37/35/32	42/40/38/36/33	46/44/42/40/38
Dimensions (HxWxD)		mm	305x775x620			305x990x620		305x1,445x620	
Machine weight		kg	19			22	25	33	38
Piping connections	Liquid (Flare)	mm	ø6.4				ø9.5		
	Gas (Flare)		ø12.7				ø15.9		
	Drain		VP25 (External Dia, 32/Internal Dia, 25)						
Panel (Option)	Model		BYBCQ40CF			BYBCQ63CF		BYBCQ125CF	
	Colour		Fresh white (6.5Y 9.5/0.5)						
	Dimensions(HxWxD)	mm	55x1,070x700			55x1,285x700		55x1,740x700	
	Weight	kg	10			11		13	

Ceiling Mounted Cassette Corner Type

Model				FXKQ32AV16	FXKQ40AV16
Power supply				1 phase, 220-240 V, 50 Hz	1 phase, 220-240 V, 50 Hz
★1 ★3 Cooling capacity			Btu/h	12,300	15,400
			kW	3.6	4.5
★2 ★3 Heating capacity			Btu/h	12,300	15,400
			kW	3.6	4.5
Casing / Colour				Galvanized steel plate	Galvanized steel plate
Dimensions: (H × W × D)			mm	145 × 1,210 × 523	145 × 1,210 × 523
Fan	Airflow rate (H / HM / M / ML / L)	Cooling	m^3/min	9.7 / 9.3 / 8.9 / 8.7 / 8.5	11.1 / 10.3 / 9.5 / 9.0 / 8.6
			cfm	342 / 328 / 314 / 307 / 300	392 / 364 / 335 / 318 / 304
		Heating	m^3/min	11.2 / 10.8 / 10.4 / 10.1 / 9.9	12.9 / 12.0 / 11.0 / 10.6 / 10.1
			cfm	395 / 381 / 367 / 357 / 349	455 / 424 / 388 / 374 / 357
Piping connections	Liquid pipes		mm	ϕ6.4 (flare connection)	ϕ6.4 (flare connection)
	Gas pipes		mm	ϕ12.7 (flare connection)	ϕ12.7 (flare connection)
	Drain pipe		mm	ϕ26 (hole)	ϕ26 (hole)
Mass			kg	20	20
★4 Sound pressure level (H / HM / M / ML / L)			dB(A)	36 / 35 / 34 / 34 / 33	39 / 37 / 36 / 35 / 34
Decoration panel (option)	Model			Fuse	Fuse
				BYKQ63AHW / BYKQ63AHS	BYKQ63AHW / BYKQ63AHS
	Colour			White / Silver	
	Dimensions: (H × W × D)		mm	1,390 × 595 × 41	1,390 × 595 × 41
	Air filter			Resin net (with mould resistance)	Resin net (with mould resistance)
	Mass		kg	6.6	6.6

Note:

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

Conversion formulae
kcal/h = kW × 860
Btu/h = kW × 3.412
cfm = m^3/min × 35.3
l/s = m^3/min × 1,000/60

VRV Indoor Units

Ceiling Mounted Cassette Corner Type

Model				FXKQ50AV16	FXKQ63AV16
Power supply				1 phase, 220-240 V, 50 Hz	1 phase, 220-240 V, 50 Hz
★1 ★3 Cooling capacity			Btu/h	19,100	24,200
			kW	5.6	7.1
★2 ★3 Heating capacity			Btu/h	19,100	24,200
			kW	5.6	7.1
Casing / Colour				Galvanized steel plate	Galvanized steel plate
Dimensions: (H × W × D)			mm	145 × 1,210 × 523	145 × 1,210 × 523
Fan	Airflow rate (H / HM / M / ML / L)	Cooling	m^3/min	13.2 / 12.2 / 11.1 / 10.3 / 9.5	17.4 / 15.4 / 13.9 / 12.4 / 10.8
			cfm	466 / 431 / 392 / 364 / 335	614 / 544 / 491 / 438 / 381
		Heating	m^3/min	15.3 / 14.1 / 12.9 / 12.0 / 11.0	19.7 / 18.2 / 16.6 / 15.1 / 13.6
			cfm	540 / 498 / 455 / 424 / 388	695 / 642 / 586 / 533 / 480
Piping connections	Liquid pipes		mm	ϕ6.4 (flare connection)	ϕ9.5 (flare connection)
	Gas pipes		mm	ϕ12.7 (flare connection)	ϕ15.9 (flare connection)
	Drain pipe		mm	ϕ26 (hole)	ϕ26 (hole)
Mass			kg	20	20
★4 Sound pressure level (H / HM / M / ML / L)			dB(A)	43 / 41 / 39 / 37 / 36	49 / 47 / 45 / 43 / 41
Decoration panel (option)	Model			BYKQ63AHW / BYKQ63AHS	BYKQ63AHW / BYKQ63AHS
	Colour			White / Silver	
	Dimensions: (H × W × D)		mm	1,390 × 595 × 41	1,390 × 595 × 41
	Air filter			Resin net (with mould resistance)	Resin net (with mould resistance)
	Mass		kg	6.6	6.6

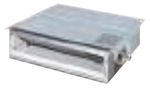
Note:

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

Conversion formulae
kcal/h = kW × 860
Btu/h = kW × 3.412
cfm = m^3/min × 35.3
l/s = m^3/min × 1,000/60

VRV Indoor Units

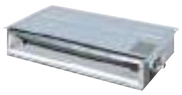
Slim Ceiling Mounted Duct Type (700 mm width type)



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

VRV Indoor Units

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



MODEL	with drain pump		FXDQ40NDV36	FXDQ50NDV36	FXDQ63NDV36
Power supply			1-phase, 220-240 V/220 V, 50 Hz		
Cooling capacity		Btu/h	15,400	19,100	24,200
		kW	4.5	5.6	7.1
Heating capacity		Btu/h	17,100	21,500	27,300
		kW	5.0	6.3	8.0
Casing			Galvanised steel plate		
Airflow rate (HH/H/L)		m^3/min	10.5/9.5/8.5	12.5/11.0/10.0	16.5/14.5/13.0
		cfm	371/335/300	441/388/353	583/512/459
External static pressure		Pa	44-15*2		
Sound level (HH/H/L) *1*3		dB(A)	34/32/30	35/33/31	36/34/32
Dimensions (HxWxD)		mm	200×900×620	200×900×620	200×1,100×620
Machine weight		kg	27.0	28.0	31.0
Piping connections	Liquid (Flare)	mm	ø 6.4	ø 6.4	Ø 9.5
	Gas (Flare)		ø 12.7	ø 12.7	Ø 15.9
	Drain		VP20 (External Dia, 26/Internal Dia, 20)		

Note: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°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.
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.
  * 1: Values are based on the following conditions: FXDQ-P: external static pressure of 10 Pa; FXDQ-N: external static pressure of 15 Pa.
  * 2: External static pressure is changeable to set by the remote controller. This pressure means "High static pressure - Standard".
  (Factory setting is 10 Pa for FXDQ-P models and 15 Pa for FXDQ-N models.)
  * 3: The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).

Mid Static Pressure Ceiling Mounted Duct Type

MODEL	with drain pump		FXMQ40ARV16	FXMQ50ARV16	FXMQ63ARV16	FXMQ80ARV16	FXMQ100ARV16
Power supply				1-phase, 220-240 V, 50 Hz			
Cooling capacity		Btu/h	15,400	19,100	24,200	30,700	38,200
		kW	4.5	5.6	7.1	9.0	11.2
Heating capacity		Btu/h	17,100	21,500	27,300	34,100	42,700
		kW	5.0	6.3	8.0	10.0	12.5
Casing				Galvanized Steel Plate			
Airflow rate (HH/H/L)		m^3/min	15/12	19/16	24/20	30/25	34/29
		cfm	530/425	671/565	848/706	1060/883	1200/1024
External static pressure		Pa	30-50				30-60
Sound level (H/L)		dB(A)	39/37	41/39	42/40	43/41	44/42
Dimensions (HxWxD)		mm	300x700x700		300x1000x700		
Machine weight		kg	27	28	35		36
Piping connections	Liquid (Flare)	mm	6.4 (Flare Connection)		9.5 (Flare Connection)		
	Gas (Flare)		12.7 (Flare Connection)		15.9 (Flare Connection)		
	Drain		VP25 (External Dia. 32, Internal Dia. 25				

Note: Specifications are based on the following conditions:

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°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.
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.

Ceiling Mounted Duct Type

MODEL		FXMQ20PAVE	FXMQ25PAVE	FXMQ32PAVE	FXMQ40PBV36	FXMQ50PBV36
Power supply		1-phase, 220-240 V/220 V, 50 Hz				
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100
	kW	2.2	2.8	3.6	4.5	5.6
Heating capacity	Btu/h	8,500	10,900	13,600	17,100	21,500
	kW	2.5	3.2	4.0	5.0	6.3
Casing		Galvanised steel plate				
Airflow rate (HH/H/L)	m^3/min	9/7.5/6.5		9.5/8/7	16/13/11	18/16.5/15
	cfm	318/265/230		335/282/247	565/459/388	635/582/530
External static pressure	Pa	30-100 (50) *2			30-160 (100) *2	50-200 (100) *2
Sound level (HH/H/L)	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)	mm	Ø 6.4			
	Gas (Flare)		Ø 12.7			
	Drain		VP25 (External Dia, 32/Internal Dia, 25)			

MODEL		FXMQ63PBV36	FXMQ80PBV36	FXMQ100PBV36	FXMQ125PBV36	FXMQ140PBV36
Power supply		1-phase, 220-240 V/220 V, 50 Hz				
Cooling capacity	Btu/h	24,200	30,700	38,200	47,800	54,600
	kW	7.1	9.0	11.2	14.0	16.0
Heating capacity	Btu/h	27,300	34,100	42,700	54,600	61,400
	kW	8.0	10.0	12.5	16.0	18.0
Casing		Galvanised steel plate				
Airflow rate (HH/H/L)	m^3/min	19.5/17.5/16	25/22.5/20	32/27/23	39/33/28	46/39/32
	cfm	688/618/565	883/794/706	1,130/953/812	1,377/1,165/988	1,624/1,377/1,130
External static pressure	Pa	50-200 (100) *2			50-200 (100) *2	50-140 (100) *2
Sound level (HH/H/L)	dB(A)	42/40/38	43/41/39	43/41/39	44/42/40	46/45/43
Dimensions (HxWxD)	mm	300x1,000x700		300x1,400x700		
Machine weight	kg	35		45		46
Piping connections	Liquid (Flare)	mm	9.5			
	Gas (Flare)		15.9			
	Drain		VP25 (External Dia, 32/Internal Dia, 25)			

Note: Specifications are based on the following condi3tions

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°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.
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.
  ★ 1: Power consumption values are based on conditions of rated external static pressure.
  ★ 2: External static pressure can be modified using a remote controller that offers seven (FXMQ20-32P), thirteen (FXMQ40P), fourteen (FXMQ50-125P) or ten (FXMQ140P) levels of control. These values indicate the lowest and highest possible static pressures. The standard static pressure is 50 Pa for FXMQ20-32P and 100 Pa for FXMQ40-140P

VRV Indoor Units

Ceiling Mounted Duct Type

Heating capacity

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

Ceiling Suspended Type

MODEL			FXHQ32MAVE	FXHQ63MAVE	FXHQ100MAVE	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
Airflow rate (H/M/L)		m3/min	12/-/10	17.5/-/14	25/-/19.5	34/26/20	36/27/20
		cfm	424/-/353	618/-/494	883/-/688	1,200/918/706	1,271/953/706
Sound level (H/M/L)		dB(A)	36/-/31	39/-/34	45/-/37	46/41/37	48/42/37
Dimensions (HxWxD)		mm	195x960x680	195x1,160x680	195x1,400x680	235x1,590x690	
Machine weight		kg	24	28	33	41	
Piping connections	Liquid (Flare)	mm	ϕ 6.4	ϕ 9.5			
	Gas (Flange)		ϕ 12.7	ϕ 15.9			
	Drain		VP20 (External Dia. 26/Internal Dia. 20)				

Note: Specifications are based on the following conditions

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

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

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

4-way Flow Ceiling Suspended Type

MODEL			FXUQ71AVEB	FXUQ100AVEB
Power supply			1-phase, 220-240 V/220-230V, 50 Hz	
Cooling capacity		Btu/h	27,300	38,200
		kW	8.0	11.2
Heating capacity		Btu/h	30,700	42,700
		kW	9.0	12.5
Casing			Fresh white	
Airflow rate (H/L)		m^3/min	22.5/19.5/16	31/26/21
		cfm	794/688/565	1,094/918/741
Sound level (H/M//L)		dB(A)	40/38/36	47/44/40
Dimensions (HxWxD)		mm	198x950x950	
Machine weight		kg	26	27
Piping connections	Liquid (Flare)	mm	9.5	
	Gas (Flare)		15.9	
	Drain		VP20 (External Dia, 26/Internal Dia, 20)	

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

Wall Mounted Type

MODEL			FXAQ20ARVE6	FXAQ25ARVE6	FXAQ32ARVE6	FXAQ40ARVE6	FXAQ50ARVE6	FXAQ63ARVE6
Power supply			1-phase, 220 V/220 V, 50 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
Casing			White (N9.5)					
Airflow rate (H/L)		m^3/min	7.5/4.5	9/5	11/5.5	13/9	15/12	19/14
		cfm	265/159	318/177	388/194	459/318	530/424	671/494
Sound level (H/L)		dB(A)	35/31	36/31	38/31	39/34	42/37	47/41
Dimensions (HxWxD)		mm	298x929x258					
Machine weight		kg	13.0					
Piping connections	Liquid (Flare)	mm	Ø 6.4					Ø 9.5
	Gas (Flare)		Ø 12.7					Ø 15.9
	Drain		VP13 (External Dia, 18/Internal Dia, 13)					

VRV Indoor Units

Floor Standing Type/Concealed Floor Standing Type

FXLQ

FXNQ

Heating capacity

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

Note: Specifications are based on the following conditions:

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°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.

Sound level: (FXAQ-P) Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.
(FXLQ-MA, FXNQ-MA) Anechoic chamber conversion value, measured at a point 1.5 m in front of the unit at a height of 1.5 m.
During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Floor Standing Duct Type

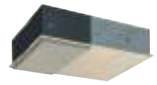
MODEL			FXVQ125NY1	FXVQ200NY1	FXVQ250NY1	FXVQ400NY1	FXVQ500NY16
Power supply			3-phase 4-wire system, 380 -415 V, 50 Hz				
Cooling capacity		Btu/h	47,800	76,400	95,500	1,54,000	1,91,000
		kW	14.0	22.4	28.0	45.0	56.0
Heating capacity		Btu/h	54,600	85,300	1,07,500	1,71,000	2,15,000
		kW	16.0	25.0	31.5	50.0	63.0
Casing colour			Ivory white (5Y7.5/1)				
Dimensions (HxWxD)		mm	1670x750x510	1670x950x510	1670x1170x510	1900x1170x720	1900x1470x720
Machine weight		kg	118	144	169	236	306
Airflow rate		m^3/min	43	69	86	134	172
		cfm	1,518	2,436	3,036	4,730	6,072
External static Pressure*2		Pa	152	217	281	420	390
Drive system			Belt drive system				
Air Filter	Type		Long-life filter (anti-mould resin net)				
Sound level *1		dB(A)	52	56	60	65	66
Piping connections	Liquid (Flare)	mm	9.5 (Brazing)			12.7 (Brazing)	15.9 (Brazing)
	Gas (Flare)		15.9 (Brazing)	19.1 (Brazing)	22.2 (Brazing)	28.6 (Brazing)	
	Drain		Rp1 (PS 1B internal thread)				

Note: Specifications are based on the following conditions:

- Cooling: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°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.

★ 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.

Clean Room Type Air Conditioner



Type			Integrated outlet unit model			Separate outlet unit model
MODEL	Indoor unit		FXBQ40PVE	FXBQ50PVE	FXBQ63PVE	FXBPQ63PVE
	Outlet unit		Integrated with the indoor unit			BAF82A63
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz			
Cooling capacity		Btu/h	15,400	19,100	24,200	24,200
		kW	4.5	5.6	7.1	7.1
Power consumption		kW	0.31	0.31	0.45	0.45
Intake filter efficiency *1			70% by gravimetric method			
Outlet HEPA filter efficiency *2			99.97% by DOP method *5			
Indoor unit weight		kg	140 *3		185 *3	120 *6
Casing			Galvanised steel plate			
Airflow rate (H/L)		cfm	19.5/17.5		26/22.5	
		m^3/min	688/618		918/794	
Dimensions (HxWxD)		mm	492x1,788x1,000		492x1,788x1,300	492x1,078x1,300
Outlet unit weight		kg	–			65 *3
Piping connections	Liquid (Flare)	mm	ø6.4		ø9.5	
	Gas (Flare)		ø12.7		ø15.9	
	Drain		PT1B			
Filter(Option)	HEPA filter	Model	BAFH82A50		BAFH82A63	
Panel (Option)	Ceiling intake type		BYB82A50C		BYB82A63C	BYB82A63CP
	Floor-level intake type		BYB82A50W		BYB82A63W	BYB82A63WP

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.)

*1: An intake air filter is only attached to the ceiling intake type.
*2: HEPA filter sold separately. The dust collection efficiency of HEPA filter is 99.97%. However, air may slightly leak around the filter when installing.
*3: Weight including HEPA filter and panel.
*4: Anechoic chamber conversion value under JIS B 8616 test conditions. Value usually increases slightly in practice due to surrounding conditions.
*5: The clean room air conditioner does not support DOP testing (leak test) based on GMP standards (Standards for Manufacturing Control and Quality Control for Medical Devices) due to slight leakage at time of product installation.
*6: Weight including panel.

*In the case of an installation in an operating theatre etc. where an air conditioner malfunction may have serious consequences, please build in redundancy with two or more outdoor units.

Multi Cube (Spot AC) type)

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

Outdoor Units

VRV X (Cooling Only)

MODEL			RXQ6ARY6(ES)	RXQ8ARY6(ES)	RXQ10ARY6(ES)	RXQ12ARY6(ES)	RXQ14ARY6(ES)	RXQ16ARY6(ES)
Combination units			—	—	—	—	—	—
Power supply			3-phase, 380–415 V, 50 Hz					
Cooling capacity		Btu/h	54,600	76,400	95,500	1,14,000	1,36,000	1,54,000
		kW	16.0	22.4	28.0	33.5	40.0	45.0
Capacity control		%	25~100	20~100	13~100	12~100	11~100	10~100
Casing colour			Ivory white (5Y7.5/1)					
Compressor	Type		Hermetically Sealed Scroll Type					
	No. of compressor		1	1	1	1	1	2
Airflow rate		m^3/min	119	178		191	257	
Dimensions (HxWxD)		mm	1,657X930X765				1,657X1,240X765	
Machine weight		kg	165		175		220	260
Sound level		dB(A)	56	56	57	59	60	60
Operation range	Cooling	°CDB	5 ~ 50					
Refrigerant	Type		R410A					
	Charge	kg	5.9		6.7	6.8	7.4	8.2
Piping connections	Liquid	mm	ø 9.5			ø 12.7		
	Gas	mm	ø 19.1		ø 22.2	ø 28.6		

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

Outdoor Units

VRV X (Cooling Only)

MODEL			RXQ18ARY6(ES)	RXQ20ARY6(ES)	RXQ22ARY6(ES)	RXQ24ARY6(ES)
Combination units			—	—	RXQ10ARY6(ES)	RXQ12ARY6(ES)
			—	—	RXQ12ARY6(ES)	RXQ12ARY6(ES)
			—	—	—	—
Power supply			3-phase, 380–415 V, 50 Hz			
Cooling capacity		Btu/h	1,71,000	1,91,000	2,10,000	2,29,000
		kW	50.0	56.0	61.5	67.0
Capacity control		%	10~100	7~100	6~100	
Casing colour			Ivory white (5Y7.5/1)			
Compressor	Type		Hermetically Sealed Scroll Type			
	No. of compressor		2	2	1+1	1+1
Airflow rate		m^3/min	257	297	178+191	191+191
Dimensions (HxWxD)		mm	1,657X1,240X765		(1,657X930X765)+(1,657X930X765)	
Machine weight		kg	260	285	175+175	
Sound level		dB(A)	61	65	61	62
Operation range	Cooling	°CDB	5 ~ 50			
Refrigerant	Type		R410A			
	Charge	kg	8.4	11.8	6.7+6.8	6.8+6.8
Piping connections	Liquid	mm	ø 15.9			
	Gas	mm	ø 28.6			ø 34.9

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

SPECIFICATIONS

Outdoor Units

VRV X (Cooling Only)

								
MODEL			**RXQ26ARY6(ES)**	**RXQ28ARY6(ES)**	**RXQ30ARY6(ES)**	**RXQ32ARY6(ES)**	**RXQ34ARY6(ES)**	**RXQ36ARY6(ES)**
Combination units			**RXQ12ARY6(ES)**	**RXQ12ARY6(ES)**	**RXQ12ARY6(ES)**	**RXQ14ARY6(ES)**	**RXQ16ARY6(ES)**	**RXQ18ARY6(ES)**
			RXQ14ARY6(ES)	**RXQ16ARY6(ES)**	**RXQ18ARY6(ES)**	**RXQ18ARY6(ES)**	**RXQ18ARY6(ES)**	**RXQ18ARY6(ES)**
			—	—	—	—	—	—
Power supply			3-phase, 380–415 V, 50 Hz					
Cooling capacity		Btu/h	2,47,000	2,68,000	2,85,000	3,05,000	3,24,000	3,41,000
		kW	73.5	78.5	83.5	90	95.0	100
Capacity control		%	6~100	5~100	5~100	5~100	4~100	5~100
Casing colour			Ivory white (5Y7.5/1)					
Compressor	Type		Hermetically Sealed Scroll Type					
	No. of compressor		1+1	1+2	1+2	1+2	2+2	2+2
Airflow rate		m^3/min	191+257	191+257	191+257	257+257	257+257	257+257
Dimensions (HxWxD)		mm	(1,657X930X765)+(1,657X1,240X765)			(1,657X1,240X765)+(1,657X1,240X765)		
Machine weight		kg	175+220	175+260		220+260	260+260	
Sound level		dB(A)	63			64		
Operation range	Cooling	°CDB	5 ~ 50					
Refrigerant	Type		R410A					
	Charge	kg	6.8+7.4	6.8+8.2	6.8+8.4	7.4+8.4	8.2+8.4	8.4+8.4
Piping connections	Liquid	mm	ø 19.1	ø 19.1	ø 19.1	ø 19.1	ø 19.1	ø 19.1
	Gas	mm	ø 34.9	ø 34.9	ø 34.9	ø 34.9	ø 34.9	ø 41.3

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

Outdoor Units

VRV X (Cooling Only)

							
RXQ38ARY6(ES)	**RXQ40ARY6(ES)**	**RXQ42ARY6(ES)**	**RXQ44ARY6(ES)**	**RXQ46ARY6(ES)**	**RXQ48ARY6(ES)**	**RXQ50ARY6(ES)**	
RXQ18ARY6(ES)	**RXQ20ARY6(ES)**	**RXQ12ARY6(ES)**	**RXQ12ARY6(ES)**	**RXQ14ARY6(ES)**	**RXQ14ARY6(ES)**	**RXQ14ARY6(ES)**	
RXQ20ARY6(ES)	**RXQ20ARY6(ES)**	**RXQ12ARY6(ES)**	**RXQ12ARY6(ES)**	**RXQ14ARY6(ES)**	**RXQ16ARY6(ES)**	**RXQ18ARY6(ES)**	
—	—	**RXQ18ARY6(ES)**	**RXQ20ARY6(ES)**	**RXQ18ARY6(ES)**	**RXQ18ARY6(ES)**	**RXQ18ARY6(ES)**	
3-phase, 380–415 V, 50 Hz							
3,62,000	3,82,000	3,99,000	4,20,000	4,40,000	4,57,000	4,78,000	
106	112	117	123	129	134	140	
4~100			3~100	4~100	3~100		
Ivory white (5Y7.5/1)							
Hermetically Sealed Scroll Type							
2+2		1+1+2				1+2+2	
257+297	297+297	191+191+257	191+191+297	257+257+257			
(1,657X1,240X765)+ (1,657X1,240X765)		(1,657X930X765)+ (1,657X930X765)+ (1,657X1,240X765)		(1,657X1,240X765)+ (1,657X1,240X765)+ (1,657X1,240X765)			
260+285	285+285	175+175+260	175+175+285	220+220+260	220+260+260	220+260+260	
66	68	65	67	65			
5 ~ 50							
R410A							
8.4+11.8	11.8+11.8	6.8+6.8+8.4	6.8+6.8+11.8	7.4+7.4+11.8	7.4+8.2+8.4	7.4+8.4+8.4	
ø 19.1							
ø 41.3							

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

Outdoor Units

VRV X (Cooling Only)

MODEL			RXQ52ARY6(ES)	RXQ54ARY6(ES)	RXQ56ARY6(ES)	RXQ58ARY6(ES)	RXQ60ARY6(ES)
Combination units			RXQ16ARY6(ES)	RXQ18ARY6(ES)	RXQ18ARY6(ES)	RXQ18ARY6(ES)	RXQ20ARY6(ES)
			RXQ18ARY6(ES)	RXQ18ARY6(ES)	RXQ18ARY6(ES)	RXQ20ARY6(ES)	RXQ20ARY6(ES)
			RXQ18ARY6(ES)	RXQ18ARY6(ES)	RXQ20ARY6(ES)	RXQ20ARY6(ES)	RXQ20ARY6(ES)
Power supply			3-phase, 380–415 V, 50 Hz				
Cooling capacity		Btu/h	4,95,000	5,12,000	5,32,000	5,53,000	5,73,000
		kW	145	150	156	162	168
Capacity control		%	3~100				2~100
Casing colour			Ivory white (5Y7.5/1)				
Compressor	Type		Hermetically Sealed Scroll Type				
	No. of compressor		2+2+2				
Airflow rate		m^3/min	257+257+257		257+297+297		
Dimensions (HxWxD)		mm	(1,657X1,240X765 + 1,657X1,240X765 + 1,657X1,240X765)				
Machine weight		kg	260+260+260		260+260+285	260+285+285	285+285+285
Sound level		dB(A)	65	66	68	69	70
Operation range	Cooling	°CDB	5 ~ 50				
Refrigerant	Type		R410A				
	Charge	kg	8.2+8.4+8.4	8.4+8.4+8.4	8.4+8.4+11.8	8.4+11.8+11.8	11.8+11.8+11.8
Piping connections	Liquid	mm	ø 19.1				
	Gas	mm	ø 41.3				

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

Outdoor Units

VRV X (Heat Pump)

MODEL			RXYQ6ARY6	RXYQ8ARY6	RXYQ10ARY6	RXYQ12ARY6	RXYQ14ARY6	RXYQ16ARY6
Combination units			—	—	—	—	—	—
Power supply			3-phase, 380–415 V, 50 Hz					
Cooling capacity		Btu/h	54,600	76,400	95,500	1,14,000	1,36,000	1,54,000
		kW	16.0	22.4	28.0	33.5	40.0	45.0
Heating capacity		Btu/h	61,400	85,300	1,07,000	1,28,000	1,54,000	1,71,000
		kW	18.0	25.0	31.5	37.5	45.0	50.0
Capacity control		%	25-100	20-100	13-100	12-100	11-100	10-100
Casing colour			Ivory white (5Y7.5/1)					
Compressor	Type		Hermetically Sealed Scroll Type					
	No. of compressor		1				2	
Airflow rate		m^3/min	119	178		191	257	
Dimensions (HxWxD)		mm	1,657X930X765				1,657X1,240X765	
Machine weight		kg	180		195		265	
Sound level		dB(A)	56		57		60	
Operation range	Cooling	°CDB	-5 ~ 50					
	Heating	°CDB	-20 ~ 15.5					
Refrigerant	Type		R410A					
	Charge	kg	6.9	7.0	7.4	7.6	9.1	9.3
Piping connections	Liquid	mm	ø 9.5			ø 12.7		
	Gas	mm	ø 19.1		ø 22.2	ø 28.6		

Note: Specifications are based on the following conditions:
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°WB, Equivalent piping length: 7.5m, Level difference: 0m.
- Sound level: Anechoic chamber conversion value, measured at a point 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.

Outdoor Units

VRV X (Heat Pump)


MODEL			RXYQ18ARY6	RXYQ20ARY6	RXYQ22ARY6	RXYQ24ARY6
Combination units			—	—	RXYQ10ARY6	RXYQ12ARY6
			—	—	RXYQ12ARY6	RXYQ12ARY6
			—	—	—	—
Power supply			3-phase, 380–415 V, 50 Hz			
Cooling capacity		Btu/h	1,71,000	1,91,000	2,10,000	2,29,000
		kW	50.0	56.0	61.5	67.0
Heating capacity		Btu/h	1,91,000	2,15,000	2,35,000	2,56,000
		kW	56.0	63.0	69.0	75.0
Capacity control		%	10-100	7-100	6-100	
Casing colour			Ivory white (5Y7.5/1)			
Compressor	Type		Hermetically Sealed Scroll Type			
	No. of compressor		2		1+1	
Airflow rate		m^3/min	257	297	178+191	191+191
Dimensions (HxWxD)		mm	1,657X1,240X765		(1,657X930X765)+(1,657X930X765)	
Machine weight		kg	285	305	195+195	
Sound level		dB(A)	61	65	61	62
Operation range	Cooling	°CDB	-5 ~ 50			
	Heating	°CDB	-20 ~ 15.5			
Refrigerant	Type		R410A			
	Charge	kg	11.8		7.4+7.6	7.6+7.6
Piping connections	Liquid	mm	ø 15.9			
	Gas	mm	ø 28.6			ø 34.9

Note: Specifications are based on the following conditions:
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°WB, Equivalent piping length: 7.5m, Level difference: 0m.
- Sound level: Anechoic chamber conversion value, measured at a point 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.

Outdoor Units

VRV X (Heat Pump)


MODEL			RXYQ26ARY6	RXYQ28ARY6	RXYQ30ARY6	RXYQ32ARY6	RXYQ34ARY6	RXYQ36ARY6
Combination units			RXYQ12ARY6	RXYQ12ARY6	RXYQ12ARY6	RXYQ16ARY6	RXYQ16ARY6	RXYQ16ARY6
			RXYQ14ARY6	RXYQ16ARY6	RXYQ18ARY6	RXYQ16ARY6	RXYQ18ARY6	RXYQ20ARY6
			—	—	—	—	—	—
Power supply			3-phase, 380–415 V, 50 Hz					
Cooling capacity		Btu/h	2,47,000	2,68,000	2,85,000	3,05,000	3,24,000	3,45,000
		kW	73.5	78.5	83.5	90.0	95.0	101.0
Heating capacity		Btu/h	–	2,99,000	3,19,000	3,41,000	3,62,000	3,86,000
		kW	82.5	87.5	93.5	100.0	106.0	113.0
Capacity control		%	5-100					4-100
Casing colour			Ivory white (5Y7.5/1)					
Compressor	Type		Hermetically Sealed Scroll Type					
	No. of compressor		1+2			2+2		
Airflow rate		m^3/min	191+257			257+257		257+297
Dimensions (HxWxD)		mm	(1,657X930X765)+(1,657X1,240X765)			(1,657X1,240X765)+(1,657X1,240X765)		
Machine weight		kg	195+265		195+285	265+265	265+285	265+305
Sound level		dB(A)	63				64	66
Operation range	Cooling	°CDB	-5 ~ 50					
	Heating	°CDB	-20 ~ 15.5					
Refrigerant	Type		R410A					
	Charge	kg	7.6+9.1	7.6+9.3	7.6+11.8	9.3+9.3	9.3+11.8	
Piping connections	Liquid	mm	ø 19.1					
	Gas	mm	ø 34.9					ø 41.3

Note: Specifications are based on the following conditions:
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°WB, Equivalent piping length: 7.5m, Level difference: 0m.
- Sound level: Anechoic chamber conversion value, measured at a point 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.

Outdoor Units

VRV X (Heat Pump)

					
MODEL		**RXYQ38ARY6**	**RXYQ40ARY6**	**RXYQ42ARY6**	**RXYQ44ARY6**
Combination units		**RXYQ18ARY6**	**RXYQ20ARY6**	**RXYQ12ARY6**	**RXYQ12ARY6**
		RXYQ20ARY6	**RXYQ20ARY6**	**RXYQ12ARY6**	**RXYQ12ARY6**
		—	—	**RXYQ18ARY6**	**RXYQ20ARY6**
Power supply		3-phase, 380–415 V, 50 Hz			
Cooling capacity	Btu/h	3,62,000	3,82,000	3,99,000	4,20,000
	kW	106.0	112.0	117.0	123.0
Heating capacity	Btu/h	4,06,000	4,30,000	4,47,000	4,71,000
	kW	119.0	126.0	131.0	138.0
Capacity control	%	4 - 100	3 - 100	4 - 100	3 - 100
Casing colour		Ivory white (5Y7.5/1)			
Compressor	Type	Hermetically Sealed Scroll Type			
	No. of compressor	2+2		1+1+2	
Airflow rate	m^3/min	257+297	297+297	191+191+257	191+191+297
Dimensions (HxWxD)	mm	(1,657X1,240X765)+ (1,657X1,240X765)		(1,657X930X765)+ (1,657X930X765)+ (1,657X1,240X765)	
Machine weight	kg	285+305	305+305	195+195+285	200+200+325
Sound level	dB(A)	66	68	65	67
Operation range	Cooling °CDB	-5 ~ 50			
	Heating °CDB	-20 ~ 15.5			
Refrigerant	Type	R410A			
	Charge kg	11.8+11.8		7.6+7.6+11.8	
Piping connections	Liquid mm	Ø 19.1			
	Gas mm	Ø 41.3			

Note: Specifications are based on the following conditions:
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°WB, Equivalent piping length: 7.5m, Level difference: 0m.
- Sound level: Anechoic chamber conversion value, measured at a point 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.

Outdoor Units

VRV X (Heat Pump)

							
RXYQ46ARY6	**RXYQ48ARY6**	**RXYQ50ARY6**	**RXYQ52ARY6**	**RXYQ54ARY6**	**RXYQ56ARY6**	**RXYQ58ARY6**	**RXYQ60ARY6**
RXYQ14ARY6	**RXYQ16ARY6**	**RXYQ16ARY6**	**RXYQ16ARY6**	**RXYQ18ARY6**	**RXYQ18ARY6**	**RXYQ18ARY6**	**RXYQ20ARY6**
RXYQ16ARY6	**RXYQ16ARY6**	**RXYQ16ARY6**	**RXYQ18ARY6**	**RXYQ18ARY6**	**RXYQ18ARY6**	**RXYQ20ARY6**	**RXYQ20ARY6**
RXYQ16ARY6	**RXYQ16ARY6**	**RXYQ18ARY6**	**RXYQ18ARY6**	**RXYQ18ARY6**	**RXYQ20ARY6**	**RXYQ20ARY6**	**RXYQ20ARY6**
3-phase, 380–415 V, 50 Hz							
4,44,000	4,61,000	4,78,000	4,95,000	5,12,000	5,32,000	5,53,000	5,73,000
130.0	135.0	140.0	145.0	150.0	156.0	162.0	168.0
4,95,000	5,12,000	5,32,000	5,53,000	5,73,000	5,97,000	6,21,000	6,45,000
145.0	150.0	156.0	162.0	168.0	175.0	182.0	189.0
3 - 100						2 - 100	
Ivory white (5Y7.5/1)							
Hermetically Sealed Scroll Type							
2+2+2							
257+257+257		257+257+297	257+257+257		257+257+297	257+297+297	297+297+297
(1,657X1,240X765)+ (1,657X1,240X765)+ (1,657X1,240X765)			(1,657X1,240X765 + 1,657X1,240X765 + 1,657X1,240X765)				
195+195+305	265+265+265	265+265+285	265+285+285	285+285+285	285+285+305	285+305+305	305+305+305
65				66	68	69	70
-5 ~ 50							
-20 ~ 15.5							
R410A							
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			
Ø 19.1							
Ø 41.3							

Note: Specifications are based on the following conditions:
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°WB, Equivalent piping length: 7.5m, Level difference: 0m.
- Sound level: Anechoic chamber conversion value, measured at a point 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.

VRV X

OUTDOOR UNIT COMBINATIONS & OPTION LIST

VRV X

VRV X

HP	Capacity index	Model name	Combination for cooling only	Combination for heat pump	Outdoor unit multi connection piping kit *1	Total capacity index of connectable indoor units*2	Maximum number of connectable indoor units*2
6	150	RX(Y)Q6A	RXQ6A	RXYQ6A	—	75 to 195 (300)	9 (15)
8	200	RX(Y)Q8A	RXQ8A	RXYQ8A	—	100 to 260 (400)	13 (20)
10	250	RX(Y)Q10A	RXQ10A	RXYQ10A	—	125 to 325 (500)	16 (25)
12	300	RX(Y)Q12A	RXQ12A	RXYQ12A	—	150 to 390 (600)	19 (30)
14	350	RX(Y)Q14A	RXQ14A	RXYQ14A	—	175 to 455 (700)	22 (35)
16	400	RX(Y)Q16A	RXQ16A	RXYQ16A	—	200 to 520 (800)	26 (40)
18	450	RX(Y)Q18A	RXQ18A	RXYQ18A	—	225 to 585 (900)	29 (45)
20	500	RX(Y)Q20A	RXQ20A	RXYQ20A	—	250 to 650 (1,000)	32 (50)
22	550	RX(Y)Q22A	RXQ10A + RXQ12A	RXYQ10A + RXYQ12A	BHFP22P1006	275 to 715 (880)	35 (44)
24	600	RX(Y)Q24A	RXQ12A x 2	RXYQ12A x 2		300 to 780 (960)	39 (48)
26	650	RX(Y)Q26A	RXQ12A + RXQ14A	RXYQ12A + RXYQ14A		325 to 845 (1,040)	42 (52)
28	700	RX(Y)Q28A	RXQ12A + RXQ16A	RXYQ12A + RXYQ16A		350 to 910 (1,120)	45 (56)
30	750	RX(Y)Q30A	RXQ12A + RXQ18A	RXYQ12A + RXYQ18A		375 to 975 (1,200)	48 (60)
32	800	RX(Y)Q32A	RXQ14A + RXQ18A	RXYQ16A + RXYQ16A		400 to 1,040 (1,280)	52 (64)
34	850	RX(Y)Q34A	RXQ16A + RXQ18A	RXYQ16A + RXYQ18A		425 to 1,105 (1,360)	55 (64)
36	900	RX(Y)Q36A	RXQ18A x 2	RXYQ16A + RXYQ20A		450 to 1,170 (1,440)	58 (64)
38	950	RX(Y)Q38A	RXQ18A + RXQ20A	RXYQ18A + RXYQ20A		475 to 1,235 (1,520)	61 (64)
40	1,000	RX(Y)Q40A	RXQ20A x 2	RXYQ20A x 2		500 to 1,300 (1,600)	64 (64)
42	1,050	RX(Y)Q42A	RXQ12A x 2 + RXQ18A	RXYQ12A x 2 + RXYQ18A	BHFP22P1516	525 to 1,365 (1,365)	
44	1,100	RX(Y)Q44A	RXQ12A x 2 + RXQ20A	RXYQ12A x 2 + RXYQ20A		550 to 1,430 (1,430)	
46	1,150	RX(Y)Q46A	RXQ14A + RXQ14A + RXQ18A	RXYQ14A + RXYQ16A + RXYQ16A		575 to 1,495 (1,495)	
48	1,200	RX(Y)Q48A	RXQ14A + RXQ16A + RXQ18A	RXYQ16A x 3		600 to 1,560 (1,560)	
50	1,250	RX(Y)Q50A	RXQ14A + RXQ18A + RXQ18A	RXYQ16A + RXYQ16A + RXYQ18A		625 to 1,625 (1,625)	
52	1,300	RX(Y)Q52A	RXQ16A + RXQ18A x 2	RXYQ16A + RXYQ18A x 2		650 to 1,690 (1,690)	
54	1,350	RX(Y)Q54A	RXQ18A x 3	RXYQ18A x 3		675 to 1,755 (1,755)	
56	1,400	RX(Y)Q56A	RXQ18A x 2 + RXQ20A	RXYQ18A x 2 + RXYQ20A		700 to 1,820 (1,820)	
58	1,450	RX(Y)Q58A	RXQ18A + RXQ20A x 2	RXYQ18A + RXYQ20A x 2		725 to 1,885 (1,885)	
60	1,500	RX(Y)Q60A	RXQ20A x 3	RXYQ20A x 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 17 for notes on connection capacity of indoor units.

OPTION LIST

VRV Indoor Units

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

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

Note:
1. When installing designer panel, body height (ceiling required dimension) is 42 mm higher than standard panel. Designer panel cannot operate 2 and 3 way flow.
2. A dedicated wireless remote controller (BRC16A2) for the auto grille panel is included for lowering and raising the suction grille.
3. When installing auto grille panel, body height (ceiling required dimension) is 55 mm higher than standard panel.
4. Circulation airflow is not available with this option.
5. When installing a fresh air intake kit (chamber type), two air outlet corners are closed.
6. It is recommended that the volume of outdoor air introduced through the kit is limited to 10% of the maximum airflow rate of the indoor unit. Introducing higher quantities will increase the operating sound and may also influence temperature sensing.
7. The volume of fresh air for direct installation type is approximately 1% of the indoor unit airflow. The chamber type is recommended when more fresh air is necessary.
8. Please order using the names of both components instead of set name.
9. This option cannot be installed to designer panel and auto grille panel.
10. Filter chamber is required.
11. Please use in case temperature/humidity inside ceiling may get over 30°C, 80% RH.

*These panels do not contain the sensing function.

Ceiling Mounted Cassette (Compact Multi Flow) Type

For Unit	Model
Grid ceiling panel	BYFQ60CAW
Decoration panel	BYFQ60B3W1*1
Relay wire harness adaptor for decoration panel*1	BER01A1
Sensor kit for grid ceiling panel	BRYQ60AAW
Sealing material for air discharge outlet	BDBHQ44C60
Replacement long life filter	KAF441C60
Fresh air intake kit	KDDQ44XA60

Notes:
1. Option relay wire harness adaptor (BER01A1) is necessary when installing decoration panel (BYFQ60B3W1).
2. Installation box*2 is necessary for each adaptor marked ★
3. Up to 2 adaptors can be fixed for each installation box.
4. Only one installation box can be installed for each indoor unit.

VRV Indoor Units

Ceiling Mounted Cassette (Double Flow) Type

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

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

Ceiling Mounted Cassette Corner Type

Item	Model			
	FXKQ32AV16	FXKQ40AV16	FXKQ50AV16	FXKQ63AV16
Decoration panel	BYKQ63AHW (Surface colour: White / Base colour: Dark gray)			
	BYKQ63AHS (Surface colour: Silver / Base colour: Dark gray)			
PM2.5 filter	Initial installation kit (Frame + PM 2.5 filter) Model: BAF25A6			
	Only PM 2.5 filter replacement Part No.: 3P454777-3			
Spacer Kit	BKF25A6 / BKF25CA6 / BKF50CA6 / BKF75SA6			

C: 4D138977A

Slim Ceiling Mounted Duct Type (700 mm width type)

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

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

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

High Static Ceiling Mounted Duct Type

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

OPTION LIST

VRV Indoor Units

Ceiling Suspended Type

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

Floor Standing Type/Concealed Floor Standing Type

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

Mid Static Ceiling Mounted Duct Type

No.	Item		Type	Duct Type	
				FXMMQ40ARV16, FXMMQ50ARV16	FXMMQ63ARV16, FXMMQ80ARV16, FXMMQ100ARV16
1	High Efficiency Filter	65%	Type	KAF372AA56	KAF372AA80
2	Filter Chamber		Type	BDDF37A40~6	BDDF37A80~6
3	Long-Life Replacement Filter		Type	KAF371AA56	KAF371AA80
4	Suction Flange			BDF37A40~6	BDF37A80~6
				KTBJ25K56W	KTBJ25K80W
5	Service Panel			KTBJ25K56F	KTBJ25K80F
				KTBJ25K56T	KTBJ25K80T
6	Air Discharge Adapater			KDAJ25K56A	KDAJ25K71A

Floor Standing Duct Type

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

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

Clean Room Air Conditioner

No.	Item		Type	FXBQ40PVE	FXBQ50PVE	FXBQ63PVE	FXBPQ63PVE
1	Outlet unit				–		BAF82A63
2	Filter	HEPA filter		BAFH82A50		BAFH82A63	
3	Panel	Ceiling intake type		BYB82A50C		BYB82A63C	BYB82A63CP
4		Floor-level intake type		BYB82A50W		BYB82A63W	BYB82A63WP
5	Outside air intake duct flange			KDFJ82A80			

Outdoor Units

VRV X

Optional Accessories		RX(Y)Q6ARY6 RX(Y)Q8ARY6 RX(Y)Q10ARY6	RX(Y)Q12ARY6	RX(Y)Q14ARY6 RX(Y)Q16ARY6
Distributive piping	REFNET header	KHRP26M22H, (Max. 4 branch) KHRP26M33H (Max. 8 branch)	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)	
	REFNET joint	KHRP26A22T KHRP26A33T	KHRP26A22T, KHRP26A33T, KHRP26A72T	

Optional Accessories		RX(Y)Q18ARY6 RX(Y)Q20ARY6
Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max.4 branch) (Max.8 branch) (Max.8 branch)
	REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T

Optional Accessories		RX(Y)Q22ARY6	RX(Y)Q24ARY6	RX(Y)Q26ARY6 RX(Y)Q28ARY6 RX(Y)Q30ARY6 RX(Y)Q32ARY6	RX(Y)Q34ARY6 RX(Y)Q36ARY6 RX(Y)Q38ARY6 RX(Y)Q40ARY6
Distributive piping	REFNET header	KHRP26M22H (Max.4 branch), KHRP26M33H (Max.8 branch), KHRP26M72H (Max.8 branch),	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max.4 branch) (Max.8 branch) (Max.8 branch) (Max.8 branch)		
	REFNET joint	KHRP26A22T, KHRP26M33T, KHRP26M72T,	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T		
Pipe size reducer		—	KHRP26M73TP, KHRP26M73HP		
Outdoor unit connection piping kit		BHFP22P1006			

Optional Accessories		RX(Y)Q42ARY6 RX(Y)Q44ARY6	RX(Y)Q46ARY6 RX(Y)Q48ARY6 RX(Y)Q50ARY6 RX(Y)Q52ARY6 RX(Y)Q54ARY6 RX(Y)Q56ARY6 RX(Y)Q58ARY6 RX(Y)Q60ARY6
Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max.4 branch) (Max.8 branch) (Max.8 branch) (Max.8 branch)	
	REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T	
Pipe size reducer		KHRP26M73TP, KHRP26M73HP	
Outdoor unit connection piping kit		BHFP22P1516	

CONTROL SYSTEMS

Reiri OFFICE | HOME | HOTEL

Reiri for Office

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

Expanded Features

Reiri for Office
DCPF01

Reiri for Office
Controller Extension
DCPF05

Reiri for Office
Multisite Extension
DCPF10

Reiri for Home

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

Reiri for Home
DCPH01

Reiri for Home
Lite Version
DCPH02

Reiri for Hotel

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

Reiri for Hotel
DCPL01

Reiri for Resort
DCPR01

Reiri

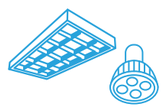
VRV X

CONNECTABLE

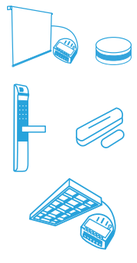
Various types of equipment in a building can be controlled by a single controller.

Individual Air-conditioning Control
From VRV to SkyAir to Split Units, conveniently manage all air-conditioning needs with flexible and precise control when connected to Reiri.

Lighting Control **DALI Compatible**
Monitor and control DALI-compatible LED lighting systems from a single controller, with enhanced automation through interlocking functions with air-conditioners and other connectable devices.



Smart Devices
Connect to a wide variety of smart devices, ranging from IP cameras to locks and sensors, and access all of them from just one Reiri app.



BENEFITS OF REIRI

Energy Saving
By automating air-conditioning and lighting controls through availabl functions such as Scheduling and Interlocking, energy consumption is greatly minimized while maximising comfort and efficiency.

Energy and Cost Management
Easily monitor and analyse energy consumption with data trend graphs, reports and even real-time energy monitoring display. Tenant billing management is also available for effective cost management.
Energy and Cost Management

Integration Capabilities
Reiri is able to integrate and connect to various sensors and smart devices, thus making it the ideal all-in-one platform to monitor and control every room's indoor environment, such as temperature, humidity, indoor air quality and illuminance.Integration Capabilities

Energy-efficient control of air-conditioning and lighting is the key to cutting energy costs.

Electricity consumption ratio in typical office buildings.

HVAC and lighting account for 72%

Source: Agency for Natural Resources and Energy, Government of Japan

For More information 'Scan Me'

For More information 'Scan Me'

Individual Control Systems for VRV Indoor Units

Navigation remote controller (Wired remote controller) (Optional)

BRC1E63 &
BRC1F61 (Only for FXEQ Series)

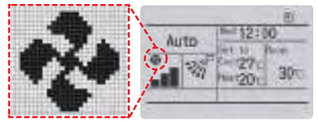
Clear display

- **Dot matrix display**

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

- **Backlight display**

Backlight display helps operating in dark rooms.



Simple operation

- **Large buttons and arrow keys**

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

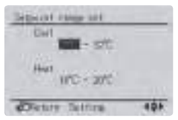
- **Guide on display**

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

Energy saving

- **Set point range set**

- Saves energy by limiting the min. and max. set temperature.
- Avoids excessive cooling or heating.
- This function is convenient when the remote controller is installed at a place where any number of people may operate it.



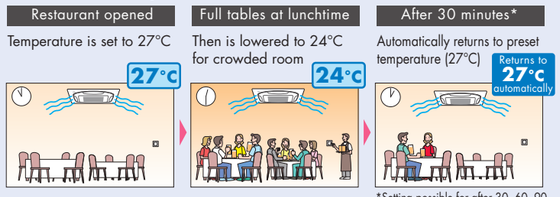
- **Set point auto-reset**

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

- **Off timer**

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

Restaurant sample



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

Individual Control Systems for VRV Indoor Units

Convenience

- **Setback (default:OFF)**

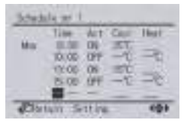
Maintains the room temperature in a specific range during an unoccupied period by temporarily starting air conditioner that was turned OFF.

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

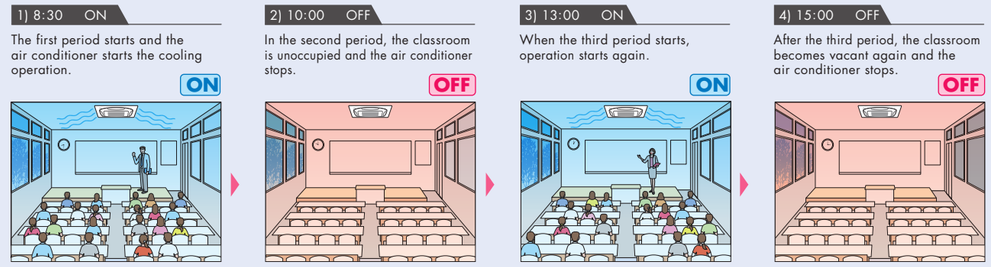
	Setback temperature	Recovery differential
Cooling	33 — 37°C	-2 — -8°C

- **Weekly schedule**

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



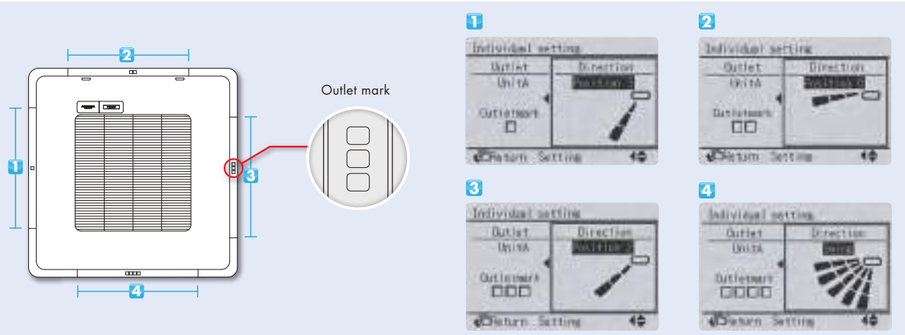
College classroom sample (a summer Monday case)



Comfort

- **Individual airflow direction (*1)**

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



- **Auto airflow rate (*2)**

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

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

Individual Control Systems for VRV Systems

Stylish remote controller (Option) - Madoka

BRC1H61W (White)

BRC1H61K (Black)

A complete redesigned controller focused to enhance user experience

reddot design award

For More information 'Scan Me'

Product Features

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

User-friendly interface

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

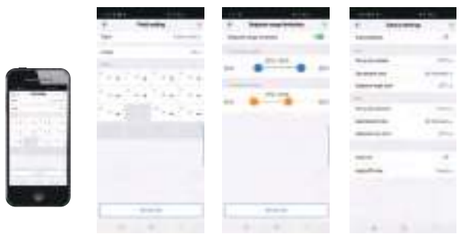
Easy setting via Bluetooth App with smartphone (for Installer / Facility manager)

Keep hotel room comfortable

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

Shorter installation time

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



<App screen image>

Individual Control Systems for VRV Indoor Units

Stylish remote controller (Option)

Easy operation with new intuitive design

BRC2E61

Simple operation

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

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

Intuitive design

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

Compact size

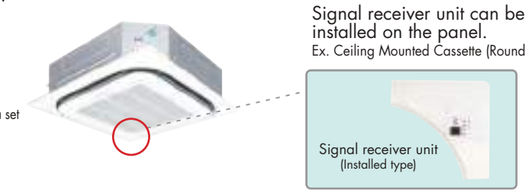
- Measuring only 85 x 85 mm, the new remote controller is extremely compact and complements any interior design.

Wireless remote controller (Option)

Signal receiver unit (Installed type)

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

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

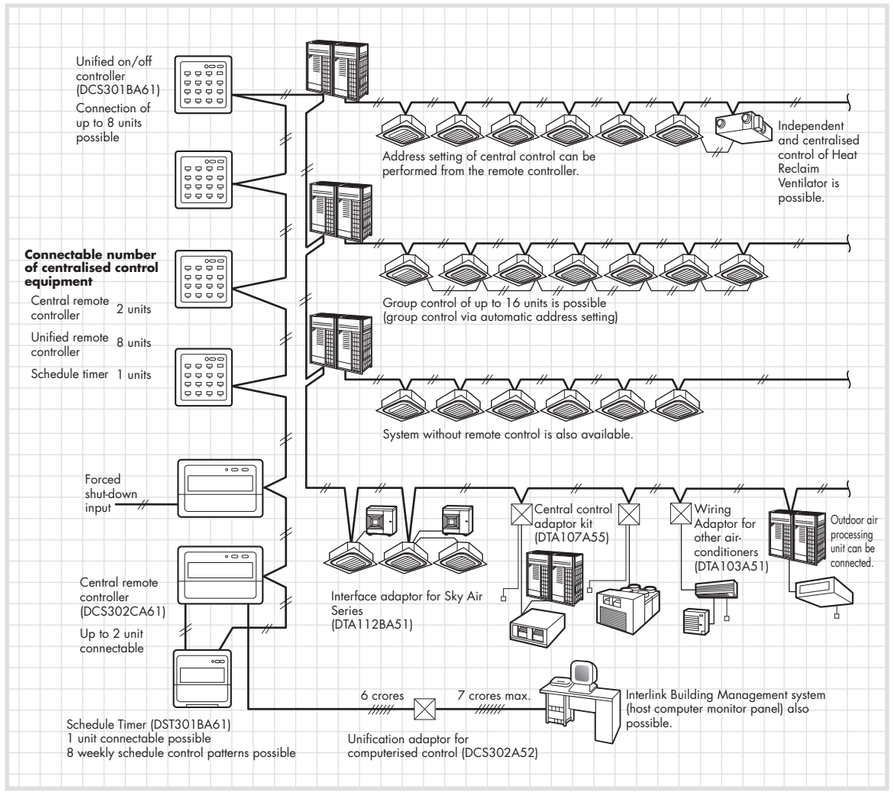


Wide variation of remote controller for VRV indoor unit

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

Centralised Control Systems for VRV Indoor Units

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



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

Centralised Control Systems for VRV Indoor Units

Residential remote controller (Optional)

DCS303A51

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

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

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

Central remote controller (Optional)

DCS302CA61

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

- Max. 64 group (128 indoor units) controllable.
- Max. 128 group (128 indoor units) are controllable by using 2 central remote controllers, which can be controlled from 2 different places.
- Zone control.
- Malfunction code display.
- Max. wiring length 1,000m (Total: 2,000m).
- 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 (Optional)

DCS301BA61

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

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

Schedule timer (Optional)

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. $8 hours back-up power supply.
- Max. wiring length 1,000m (Total: 2,000m).
- Compact size casing (Thickness: 16mm).
- Connectable with Central Remote controller, Unified ON/OFF controller and BMS system.

Advanced Control Systems for VRV Indoor Units

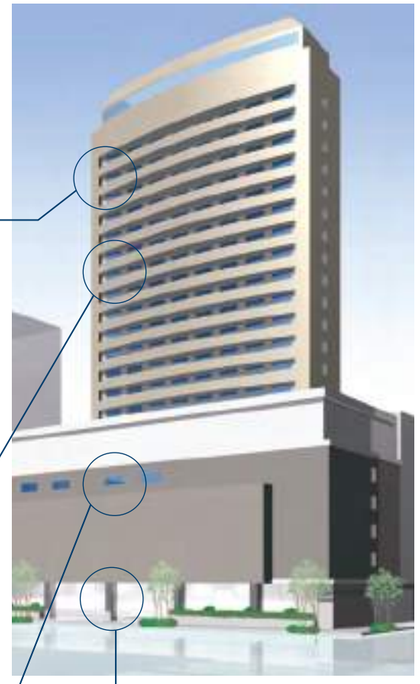
intelligent touch Manager

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

For More information 'Scan Me'

DCM601A51

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



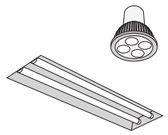
Individual air-conditioning control

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

Lighting control

DALI-compatible

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



Air conditioning control for large spaces

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

Building equipment control

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

Pump

Fan

For Energy Saving & Comfort

Intelligent Touch Manager maximises the advantages of VRV features

Intelligent Touch Manager is an advanced multi-zone controller that provides the most cost-effective way to control and monitor the Daikin VRV system.

The 10.4" LCD touch screen is easy to use with three different screen views to include the floor plan layout view, icon view and list view and menus for system configurations.

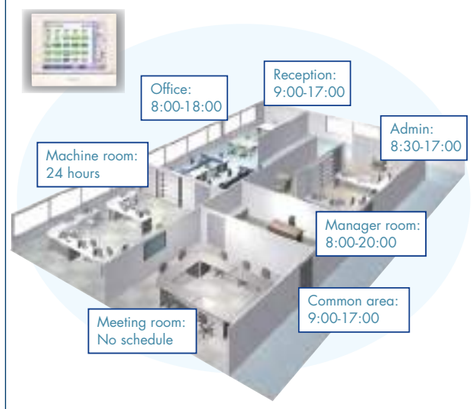
It is also easy to use with standardised remote Web Access from your PC.

It can manage a total of 650 management points consisting of up to 512 Daikin indoor unit groups

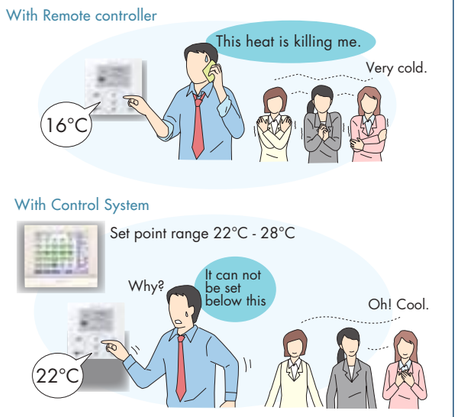
(up to 1024 indoor units) along with building equipment control / monitoring with Digital Inputs / Output

(Di/Dio), Analog Inputs / Output (Ai/Ao) and Pulse input (Pi) optional devices.

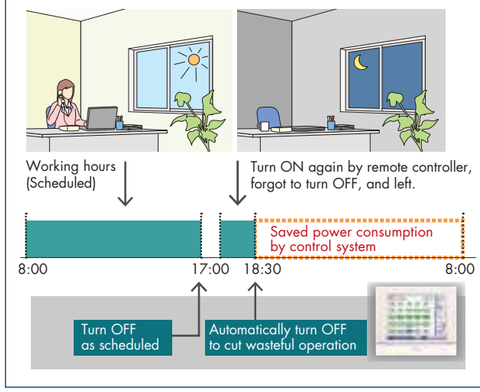
Schedule the operation time for each application.



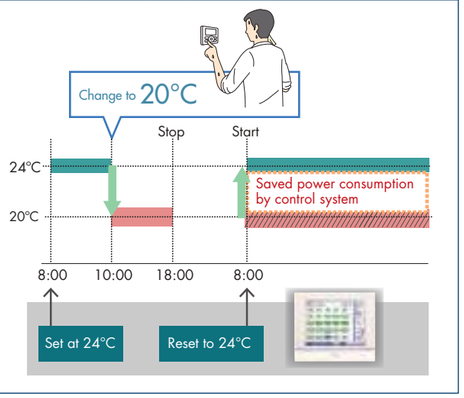
Define the set point range that users can change.



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



Reset set point regularly.



Advanced Control Systems for VRV Indoor Units

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

Lighting control (Optional)

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

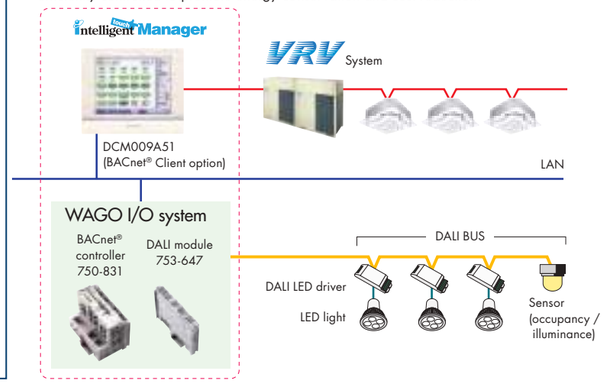
DALI-compatible
Please contact your local sales office for details.

Lighting control achieved by the intelligent Touch Manager

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

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

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



[Overview of control]
- Up to 5 DALI modules can be connected to a single BACnet® controller.
- Up to 64 DALI LED drivers (64 addresses) can be connected to a single DALI module.
- 64 DALI addresses can be freely assigned to up to 16 groups using a single DALI module.

(Each group corresponds to a management point of the *intelligent Touch Manager.*)
- Up to 16 scenes can be set to a single DALI module.
- Up to 12 sensors (occupancy, illuminance) can be connected to a single DALI module.

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

Easy maintenance and energy saving by lighting control

Case 1

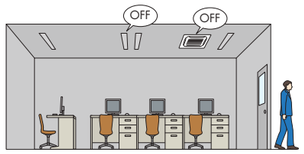
Switch-on / switch-off and illuminance are controlled based on a schedule to cut wasteful power consumption.

- Failing to switch off lights is prevented.

- Optimal illuminance reduces energy.

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.

The layout screen enables quick identification of specific locations.

Tenant Management (PPD Option)

Reporting the power consumption of VRV system for each tenant

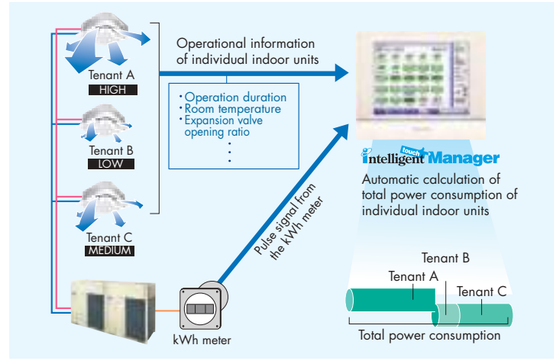
With the PPD function, power consumption can be calculated for each indoor unit (Optional)

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.



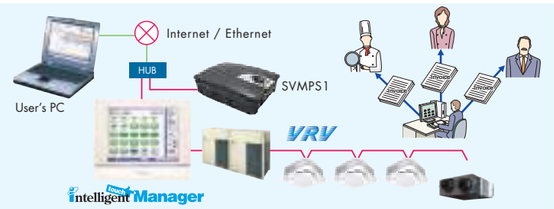
*PPD (Power Proportional Distribution) is Daikin's proprietary calculation method.

Air conditioning bills can be issued by one click

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

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)




Tenant registration screen

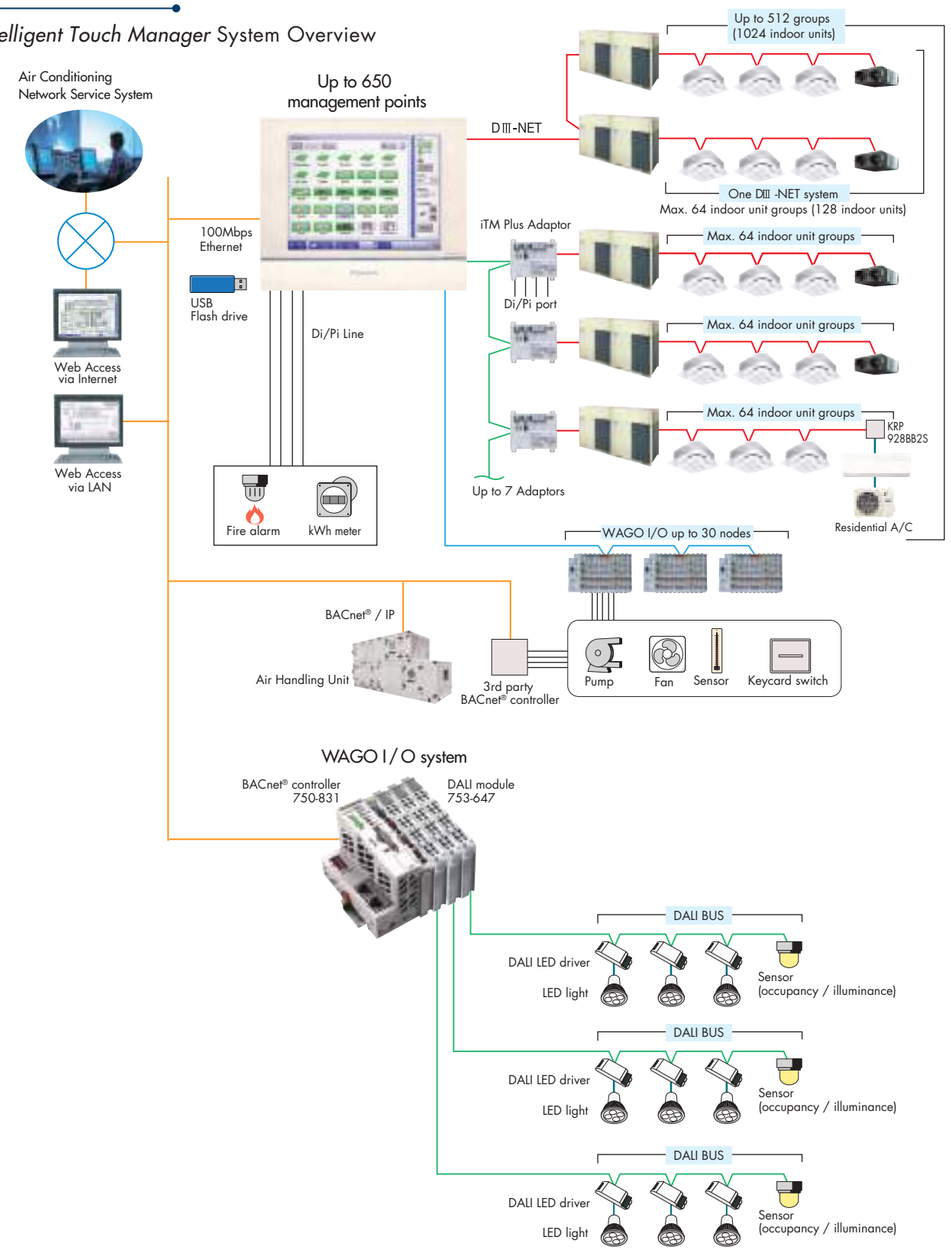

Set-up screen


VRV electricity bill screen

Advanced Control Systems for VRV Indoor Units

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

DCS601C51

intelligent touch 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 comunication protocols, Daikin offers interfaces that provide a seamless connection between VRV system and your BMS.

Dedicated interfaces make Daikin air conditioners freely compatible with open networks

DMS502B51
(Interface for use in BACnet®)

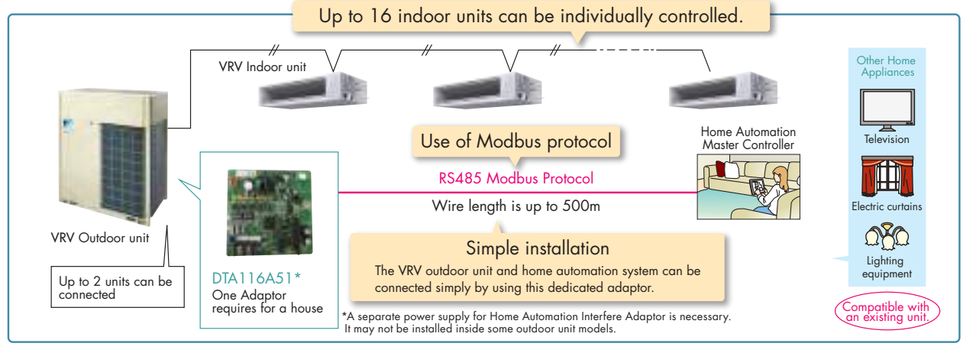
BACnet®
Seamless connection between VRV system and BACnet® open network protocol.

DMS504B51
(Interface for use in LONWORKS®)

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

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

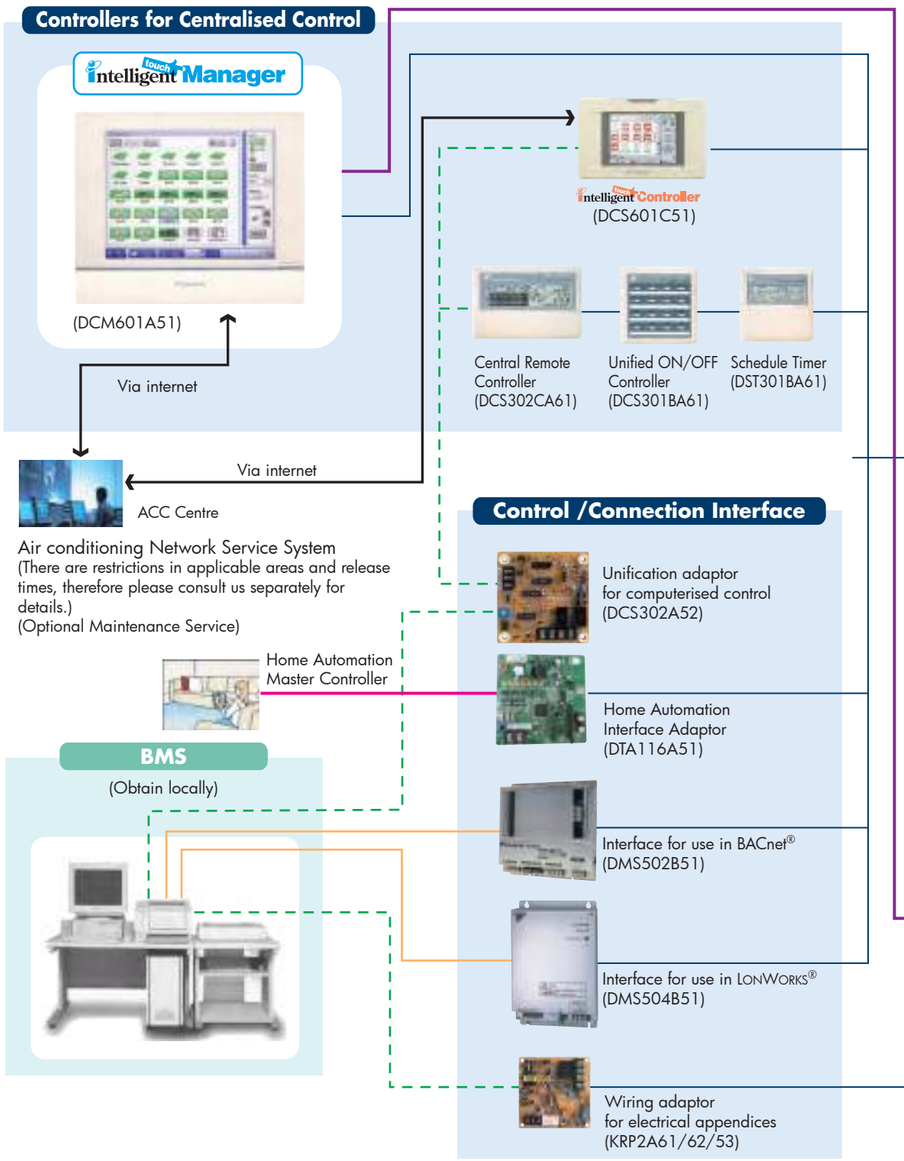
Modbus Interface Adaptor



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

Integrated Building Monitoring System

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



Integrated Building Monitoring System

- DIII-NET Line
- BACnet®/Ethernet or LONWORKS® Network Communication Line
- Contact Signal Line
- RS485 Modbus Line
- WAGO Connection

The DIII-NET system provides for:

- Close control and monitoring by integrating a wide variety of air conditioners in the entire building.
- Saving the in-building cabling using non-polar, two-wire cables. Easier wiring work with tremendously fewer wiring errors.
- Additional set-ups 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 all under integral control.

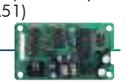
DIII-NET
(High Speed Multiple Transmission)

DIII-NET, Our unique high speed multiple transmission system, links airconditioners and various other building equipment in accordance with applications, scale and conditions and transmits vast amounts of information between them.

VRV

Heat Reclaim Ventilator

Interface Adaptor for SkyAir Series (DTA112BA51)



SkyAir

* No adaptor is required for the FCQ-B and FHQ-BV.

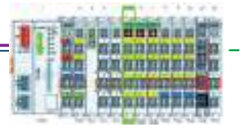
Central Control Adaptor Kit (DTA107A55)

Packaged Airconditioner

Interface Adaptor for DIII-NET use (KRP928BB2S)

Residential Airconditioner

WAGO



Building services equipment

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

VRV

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

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

Option List

Operation Control System Optional Accessories

For *VRV* indoor unit use

No.	Item \ Type			FXFSQ-A (For Black Panel)	FXFSQ-A	FXZQ-M	FXUQ-A	FXCQ-M	FXKQ-AV	FXDQ-PD FXDQ-ND
1	Remote controller	Wireless	Receiver	BRC7M634K	BRC7M632F-6	BRC7M630W-6	BRC7CB58	BRC7M65	BRC63AV	BRC4M61-6
			Handset		BRC4M150W16				BRC4M150W16	
		Wired			BRC1E63	BRC2E61				
2	Navigation remote controller (Wired remote controller)					BRC1E63 Note 7				
3	Simplified remote controller (Exposed type)					—				BRC2C51
4	Remote controller for hotel use (Concealed type)					—				BRC3A61
5	Adaptor for wiring				★KRP1C63	★KRP1BA57	—	★KRP1B61	KRP1B61	★KRP1B56
6-1	Wiring adaptor for electrical appendices (1)				★KRP2A62	★KRP2A62	—	★KRP2A61	KRP2A61	★KRP2A53
6-2	Wiring adaptor for electrical appendices (2)				★KRP4AA53	★KRP4AA53	★KRP4AA53	★KRP4AA51	KRP4AA51	★KRP4A54
7	Remote sensor (for indoor temperature)				KRCS01-4B	KRCS01-1B				
8	Installation box for adaptor PCB ☆				Note 2, 3 KRP1H98	Note 4, 6 KRP1BA101	KRP1BA97	Note 2, 3 KRP1B96	—	Note 4, 6 KRP1BA101
9	External control adaptor for outdoor unit				★DTA104A62	★DTA104A62	—	★DTA104A61	DTA104A61	★DTA104A53
10	Adaptor for multi tenant				★DTA114A61	—				

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

Function List

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

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

Option List

System Configuration

No.	Item \ Type		Model No.	Function
1	Residential central remote controller		Note 2 DCS303A51	• Up to 16 groups of indoor units (128 units) can be easily controlled using the large LCD panel. ON/OFF, temperature settings and scheduling can be controlled individually for indoor units.
2	Central remote controller		DCS302CA61	• Up to 64 groups of indoor units (128 units) can be connected, and ON/OFF, temperature setting and monitoring can be accomplished individually or simultaneously. Connectable up to 2 controllers in one system.
2-1	Electrical box with earth terminal (3 blocks)		KJB311AA	
3	Unified ON/OFF controller		DCS301BA61	• Up to 16 groups of indoor units (128 units) can be turned, ON/OFF individually or simultaneously, and operation and malfunction can be displayed. Can be used in combination with up to 8 controllers.
3-1	Electrical box with earth terminal (2 blocks)		KJB212AA	
3-2	Noise filter (for electromagnetic interface use only)		KEK26-1A	
4	Schedule timer		DST301BA61	• Programmed time weekly schedule can be controlled by unified control for up to 64 groups of indoor units (128 units). Can turn units ON/OFF twice per day.
5	5-room centralised controller for residential indoor units	For CDXS, FDK(X)S, FTK(X)S	Note 3 KRC72A	• Up to 5 indoor units can be controlled. This is a low cost system which can only control ON/OFF.
6	Interface adaptor for residential indoor units	For CDXS, FDK(X)S, FTK(X)S	KRP928BB2S	• Adaptors required to connect products other than those of the *VRV* System to the high-speed DIII-NET communication system adopted for the *VRV* System. * To use any of the above optional controllers, an appropriate adaptor must be installed on the product unit to be controlled.
7	Interface adaptor for SkyAir-series	For FCQ-B, FFQ-B, FHQ-BV, FBQ-B	★DTA112BA51	
8	Central control adaptor kit	For UAT(Y)-K(A), FD-K	★DTA107A55	
9	Wiring adaptor for other air-conditioner		★DTA103A51	
10	DIII-NET Expander Adaptor		DTA109A51	• Up to 1024 units can be centrally controlled in 64 different groups. • Wiring restrictions (max. length: 1,000m, total wiring length: 2,000m, max. number of branches: 16) apply to each adaptor. • Fixing plate for DTA109A51
10-1	Mounting plate		KRP4A92	

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

Building Management System

No.	Item				Model No.	Function
1	intelligent Touch Controller	Basic	Hardware	intelligent Touch Controller	DCS601C51	• Air conditioning management system that can be controlled by a compact all-in-one unit.
1-1		Option	Hardware	DIII-NET plus adaptor	DCS601A52	• 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		Option	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						
2-3			Software	iTM power proportional distribution	DCM002A51	• Power consumption of indoor units are calculated based on operation status of the indoor unit andoutdoor unit power consumption measured by kWh metre.
2-4				iTM energy navigator	DCM008A51	• Building energy consumption is visualised.Wasted air conditioning energy can be found out.
2-5	Di unit				DEC101A51	• 8 pairs based on a pair of ON/OFF input and abnormality input.
2-6	Dio unit				DEC102A51	• 4 pairs based on a pair of ON/OFF input and abnormality input.
3	Communication interface	*1 Interface for use in BACnet®			DMS502B51	• Interface unit to allow communications between VRV and BMS. Operation and monitoring of air conditioning systems through BACnet® communication.
3-1		Optional DIII board			DAM411B51	• Expansion kit, installed on DMS502B51, to provide 2 more DIII-NET communication ports. Not usable independently.
3-2		Optional Di board			DAM412B51	• Expansion kit, installed on DMS502B51, to provide 16 more wattmeter pulse input points. Not usable independently.
4		*2 Interface for use in LONWORKS®			DMS504B51	• Interface unit to allow communications between VRV and BMS. Operation and monitoring of air conditioning systems through LonWorks® communication.
5		Home Automation Interface Adaptor			DTA116A51	• Use of the Modbus protocol enables the connection of the VRV system with a variety of home automation systems from other manufacturers.

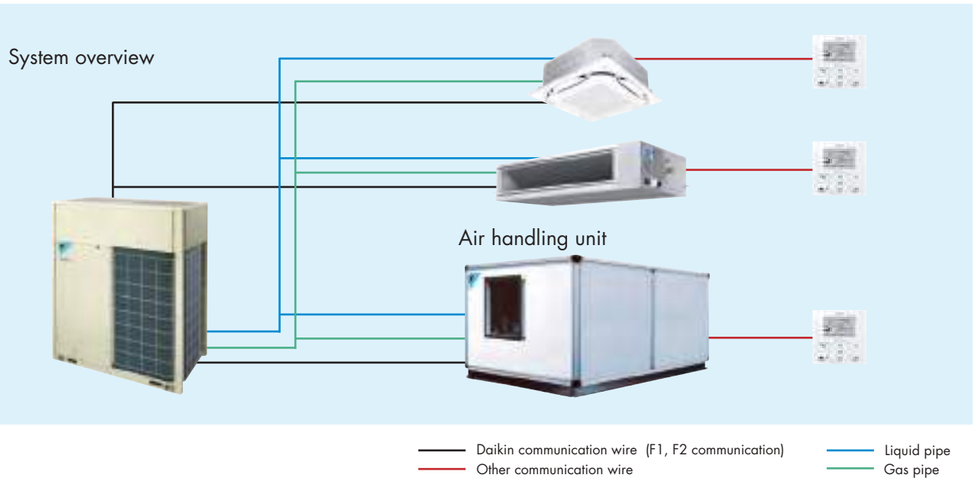
Notes:
*1. BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).
*2. LonWorks® is a trademark of Echelon Corporation registered in the United States and other countries.
*3. Installation box for ★ adaptor must be obtained locally.

AIR HANDLING UNIT

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

Capacity range : 6 - 60 HP

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



Air handling units can be connected to VRV systems.
This combination can be built to order as a system. Outdoor air series is also possible. Please contact your local sales office for details.

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

HEADER PACK

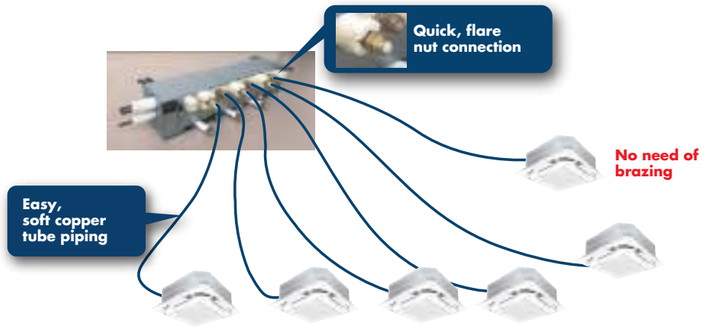
The Innovative Refrigerant Piping of next generation

Daikin innovated Next Generation of Quality and Efficiency for VRV Installation. It offers differentaited soulutions in installation. It ensures quality installation with reduction of site work.

Header Pack

Advantage

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



Compact design to fit into narrow attic space

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

Header Pack Line-up

Model Name	HP	Piping connections (Liquid/Gas mm)		Indoor unit total capacity index
		Outdoor unit side	Indoor unit side	
BHF6RHP6	6	Φ9.5/Φ15.9	(Φ9.5/Φ15.9)x1 (Φ6.4/Φ12.7)x3	<150
BHF8RHP6	8	Φ9.5/Φ19.1	(Φ9.5/Φ15.9)×3 (Φ6.4/Φ12.7)×3	150 ≦ X < 200
BHF10RHP6	10	Φ9.5/Φ22.2		200 ≦ X < 290
BHF16RHP6	16	Φ12.7/Φ28.6		290 ≦ X < 420

For More information 'Scan Me'

DAIKIN GAS TIGHT JOINT (DGT)

Non-brazed connection for Refrigerant piping

Evolutionally - Advanced Feature

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

Size φ 6.4 - φ 41.3

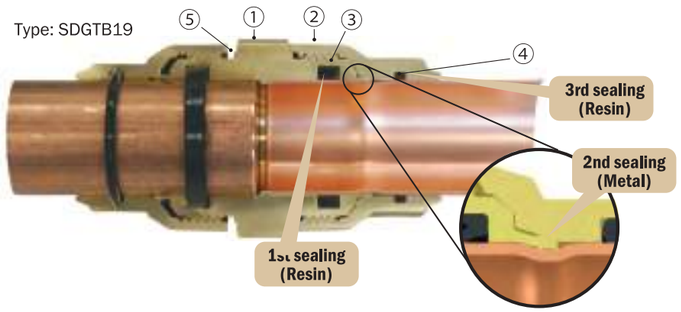
Mechanism

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

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

For More information 'Scan Me'

Type: SDGTB19



System Reliability

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

Safety First

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

Time & Costs Savings

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

Daikin Gas Tight Joint Line up

(Matching for various piping sizes)

Standard Joints (Connecting the same pipes)

Figure	Model Name	Dimension (mm)			Wei ght /pc (g)
		ND	AF	L	
	SDGTB06	φ 6.4	19.0	50.4	43
	SDGTB09	φ 9.5	22.2	55	79
	SDGTB12	φ 12.7	23.8	59	113
	SDGTB15	φ 15.9	29.7	74	210
	SDGTB19	φ 19.1	35.0	76.8	273
	SDGTB22	φ 22.2	38.0	83.4	292
	SDGTB28	φ 22.6	45.0	88	515
	BDGTA34	φ 34.9	51.1	101.5	686
	BDGTA41	φ 41.3	58.3	103.5	881

Asymmetry Joints (Connecting different size pipes)

Figure	Model Name	Dimension (mm)				Weight /pc (g)
		ND	AF		L	
	SDGTB0906	φ 9.5-6.4	22.2	19	52.7	67
	SDGTB1209	φ 12.7-9.5	23.8	22.2	57.5	101
	SDGTB1512	φ 15.9-12.7	29.7	23.8	65	164
	SDGTB1915	φ 19.1-15.9	35	29.7	76.8	244
	SDGTB2219	φ 22.2-19.1	38	35	81.5	358
	SDGTB2522	φ 25.2-22.2	41.8	38	85.8	444
	SDGTB2825	φ 28.6-25.4	45	41.8	88.1	505
	SDGTB3428	φ 34.9-28.6	51.1	45	101.5	645

VRV X

AIR TREATMENT EQUIPMENT LINEUP

A recent trend rapidly gaining popularity is the need for air treatment along with air conditioning. Our Outdoor-Air Processing Unit can combine fresh air treatment and air conditioning, supplied from a single system. It adjusts the temperature of air from outdoors using a fixed discharge temperature control. Along with Outdoor-Air Processing Units, we also offer Heat Reclaim Ventilator systems. The Heat Reclaim Ventilator VAM-GJ series units in particular have been praised for their compactness, energy conservation and extensive operation range of outdoor temperatures. This series provides higher enthalpy efficiency ★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: VAM 250/650/800/1000/2000GJVE
★2 For models: VAM 500GJVE

AIR TREATMENT EQUIPMENT LINE-UP

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

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

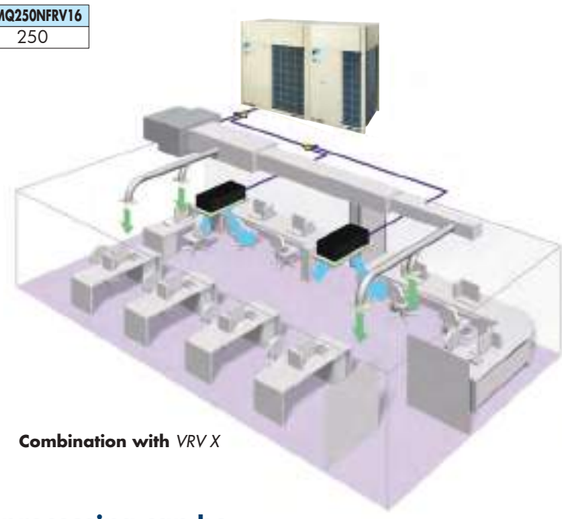
Outdoor-Air Processing Unit

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

Lineup

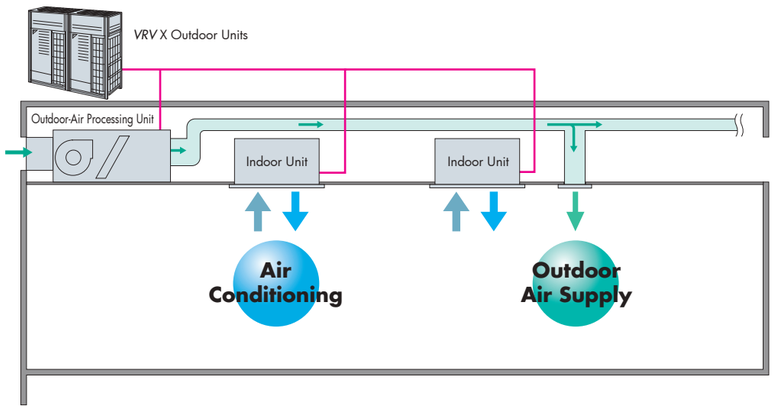
Model Name	FXMQ125NFRV16	FXMQ200NFRV16	FXMQ250NFRV16
Capacity Index	125	200	250

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



Combination with *VRV X*

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



Connection Conditions

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

- When outdoor-air processing units are connected, the total connection capacity index must be 50% to 100% of the capacity index of the outdoor units.
- When outdoor-air processing units and standard indoor units are connected, the total connection capacity index of the outdoor-air processing units must not exceed 30% of the capacity index of the outdoor units.
- Outdoor-air processing units can be used without indoor units.

Standard Specifications

Indoor unit

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

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

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

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

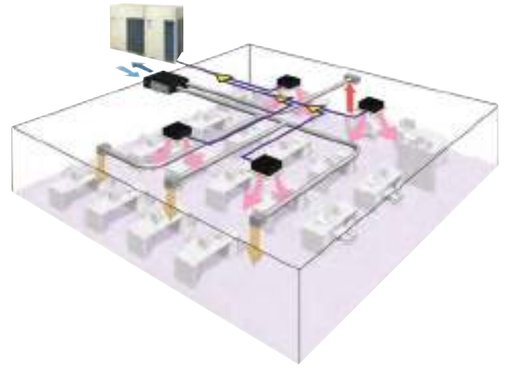
*4. It is possible to connect to the outdoor unit if the total capacity of the indoor units is 50% to 100% of the capacity index of the outdoor units.

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

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

For More information 'Scan Me'

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



Efficient outdoor air introduction is possible

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

Line-up

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

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

VKM80GAV1

Humidifier

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

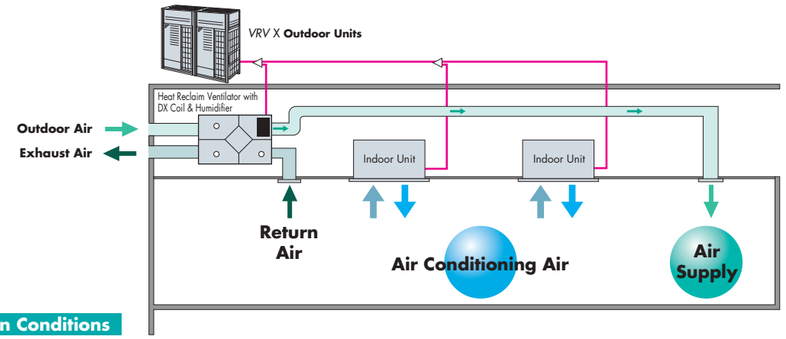
DX-coil

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

High static pressure

High external static pressure means enhanced design flexibility.

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



Connection Conditions

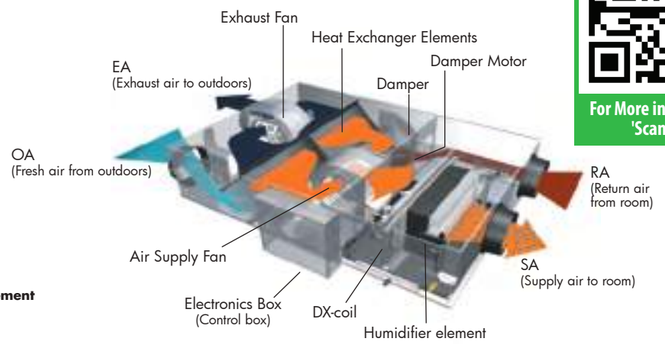
The following restrictions must be observed in order to maintain the indoor units connected to the same system.

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

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

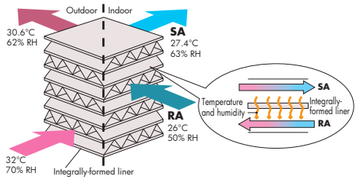
A compact unit packed with our cutting-edge technology

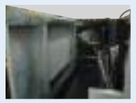
HEP Element
(Anti-mould)



For More information 'Scan Me'

Operation of the heat exchanger element

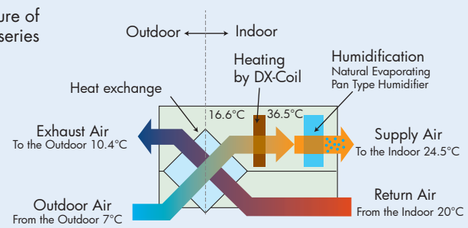




DX-coil (Direct expansion coil)

Humidifier Element

Heating and humidification process



Humidification:5.4kg/h (VKM100GAMV1)

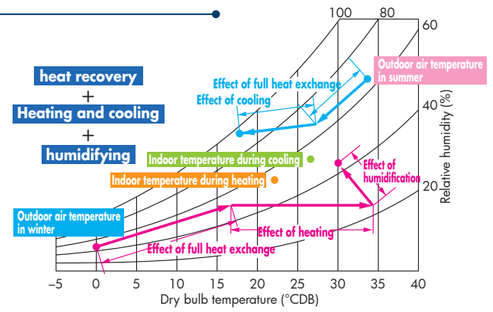
The Outdoor air is heated from 16.6°C to 36.5°C with DX-coil, Natural Evaporating Pan Type Humidifier is passed and humidification capacity is improved.

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

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

Indoor unit with outdoor air treatment

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



Other features

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

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		490	560	570	490	560	570
		Low		420	470	480	420	470	480
	Bypass mode	Ultra-high	W	560	620	670	560	620	670
		High		490	560	570	490	560	570
		Low		420	470	480	420	470	480
Fan Type				Sirocco Fan					
Motor Output			kW	0.280 x 2	0.280 x 2	0.280 x 2	0.280 x 2	0.280 x 2	0.280 x 2
Sound Level (Note 5) (220/230/240 V)	Heat exchange mode	Ultra-high	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		35/35.5/36	36/37/37.5	37/37.5/38	36/36.5/37	37.5/38/39	38/38.5/39
		Low		32/33/34	33/34/35.5	34/34.5/35.5	33.5/34.5/35.5	34.5/36/37	35/36/36.5
	Bypass mode	Ultra-high	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		35/35.5/36	36/37/37.5	37/37.5/38	36/36.5/37	37.5/38/39	38/38.5/39
		Low		32/33/34	33/34/35.5	34/34.5/35.5	33.5/34.5/35.5	34.5/36/37	35/36/36.5
Humidification Capacity (Note 4)			kg/h	2.7	4.0	5.4	—		
Temp. Exchange Efficiency	Ultra-high		%	76	78	74	76	78	74
	High			76	78	74	76	78	74
	Low			77.5	79	76.5	77.5	79	76.5
Enthalpy Exchange Efficiency (Cooling)	Ultra-high		%	64	66	62	64	66	62
	High			64	66	62	64	66	62
	Low			67	68	66	67	68	66
Enthalpy Exchange Efficiency (Heating)	Ultra-high		%	67	71	65	67	65	
	High			67	71	65	67	71	65
	Low			69	73	69	69	73	69
Casing				Galvanised Steel Plate					
Insulating Material				Self-Extinguishable Urethane Foam					
Heat Exchanging System				Air to Air Cross Flow Total Heat (Sensible + Latent Heat) Exchange					
Heat Exchanger Element				Specially Processed Non-flammable Paper					
Air Filter				Multidirectional Fibrous Fleeces					
DX-coil Capacity	Cooling (Note 2)		kW	2.8	4.5	5.6	2.8	4.5	5.6
	Heating (Note 3)			3.2	5.0	6.4	3.2	5.0	6.4
Dimensions	Height		mm	387	387	387	387	387	387
	Width			1,764	1,764	1,764	1,764	1,764	1,764
	Depth			832	1,214	1,214	832	1,214	1,214
Connection Duct Diameter			mm	Ø 200	Ø 250		Ø 200	Ø 250	
Machine Weight		Net	kg	102	120	125	96	109	114
		Gross (Note 8)		107	129	134	—		
Unit Ambient Condition		Around Unit		0°C–40°C DB, 80%RH or less					
		OA (Note 9)		-15°C–40°C DB, 80%RH or less					
		RA (Note 9)		0°C–40°C DB, 80%RH or less					

Notes:

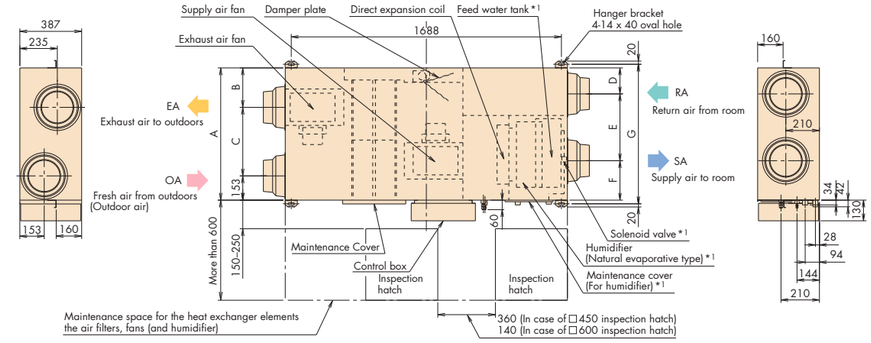
1. Cooling and heating capacities are based on the following conditions. Fan is based on High and Ultra-high. When calculating the capacity as indoor units, use the following figures: VKM50GAMV1/GV1: 3.5 kW, VKM80GAMV1/GV1: 5.6 kW, VKM100GAMV1/GV1: 7.0 kW
2. Indoor temperature: 27°C DB, 19°C WB, Outdoor temperature: 35°C DB
3. Indoor temperature: 20°C DB, Outdoor temperature: 7°C DB, 6°C WB
4. Humidifying capacity is based on the following conditions: Indoor temperature: 20°C DB, 15°C WB, Outdoor temperature: 7°C DB, 6°C WB
5. The operating sound measured at the point 1.5 m below the centre of the unit is converted to that measured in an anechoic chambar built in accordance with the JIS C 1502 conditions. The actual operating sound varies depending on the surrounding conditions (near running unit's sound, reflected sound and so on) and is normally higher than this value.
   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 continue driving (factory setting). The purpose of this is to maintain the amount of ventilation and humidifying.
14. When connecting with a VRV system heat recovery outdoor unit and bringing the RA (exhaust gas intake) of this unit directly in from the ceiling, connect to a BS unit identical to the VRV indoor unit (master unit), and use group-linked operation. (See the Engineering Data for details.)
15. When connecting the indoor unit directly to the duct, always use the same system on the indoor unit as with the outdoor unit, perform group-linked operation, and make the direct duct connection settings from the remote controller. (Mode No. "17 (27)" – First code No. "5" – Second code No. "6".) Also, do not connect to the outlet side of the indoor unit.
    Depending on the fan strength and static pressure, the unit might back up.

★ Feed clean water (city water, tap water or equivalent). Dirty water may clog the valve or cause dirt deposits in the water container, resulting in poor humidifier performance. (Never use any cooling tower water and heating-purpose water.)
   Also, if the supply water is hard water, use a water softener because of short life.

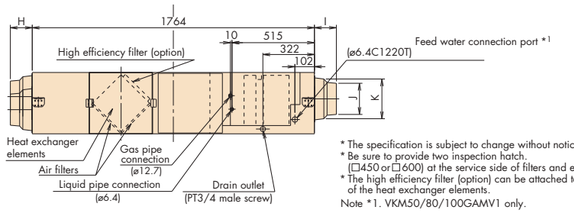
• Life of humidifying element is about 3 years (4,000 hours) under the supply water conditions of hardness: 150 mg/l. (Life of humidifying element is about 1 year (1,500 hours) under the supply water conditions of hardness: 400 mg/l.)
  Annual operating hours: 10 hours/day x 26 days/month x 5 months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

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	ø196	ø246
K	ø250	ø263



* The specification is 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											
Controlling device	Remote controller			BRC1E62/BRC1C62 *1											
	Centralised controlling device	Residential central remote controller		DCS303A51 *2											
		Central remote controller		DCS302CA61											
		Unified ON/OFF controller		DCS301BA61											
		Schedule timer		DST301BA61											
	PC Board Adaptor	Wiring adaptor for electrical appendices		KRP2A61											
		For humidifier running ON signal output		KRP50-2											
		For heater control kit		BRP4A50											
		For wiring	Type (indoor unit of VRV)	FXFQ-S FXFQ-AVM	FXZQ-M	FXUQ-A	FXCQ-M	FXKQ-MA	FXDQ-PD FXDQ-ND	FXMQ-P FXMQ-AR	FXMQ-MA	FXHQ-MA	FXAQ-P	FXLQ-MA FXNQ-MA	FXVQ-M
				KRP1C63 ★	KRP1BA57 ★	KRP1C67	KRP1B61 ★	KRP1B61	KRP1B56 ★	KRP1C64 ★	KRP1B61	KRP1BA54	—	KRP1B61	KRP1C67
		Installation box for adaptor PCB ☆		Notes 2, 3 KRP1H98	Note 4, 6 KRP1BA101	—	Notes 2, 3 KRP1B96	—	Notes 4, 6 KRP1BA101	Notes 2, 3 KRP4A96	—	Note 3 KRP1CA93	Notes 2, 3 KRP4AA93	—	—

Notes: 1. Installation box ☆ is necessary for each adaptor marked ★.
2. Up to 2 adaptors can be fixed for each installation box.
3. Only one installation box can be installed for each indoor unit.
4. Up to 2 installation boxes can be installed for each indoor unit.
5. Installation box ☆ is necessary for second adaptor.
6. Installation box ☆ is necessary for each adaptor.
7. *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 to a Heat Reclaim Ventilator (VKM), you can only switch the power ON/OFF. Cannot be used with other centralised control equipment.

Item			Type	VKM50GA(M)V1	VKM80GA(M)V1	VKM100GA(M)V1
Additional function	Silencer			—	KDDM24B100	
		Nominal pipe diameter	mm	—	ø 250	
	Air suction/ Discharge grille	White		K-DGL200B	K-DGL250B	
		Nominal pipe diameter	mm	ø 200	ø 250	
	High efficiency filter			KAF242J80M	KAF242J100M	
	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 Name

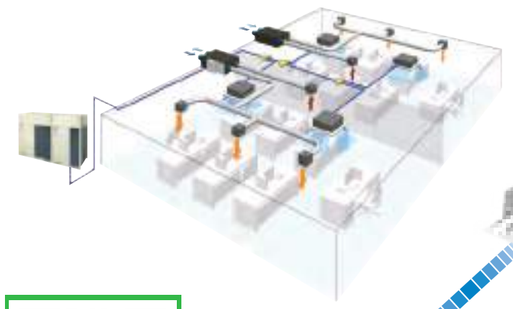
VAM250GJVE, VAM500GJVE, VAM650GJVE, VAM800GJVE, VAM1000GJVE, VAM1500GJVE, VAM2000GJVE

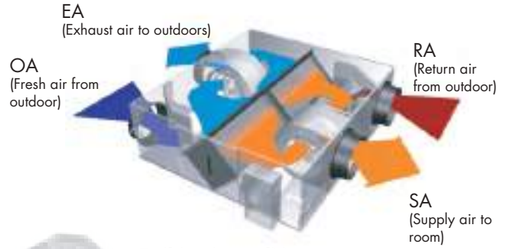
Improved Enthalpy Efficiency*1
Higher External Static Pressure*2
Enhanced Energy Saving Functions

Heat Reclaim Ventilator remote controller* BRC301B61 (Option)
This remote controller is used in case of independent operated 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 of installation. Along with these three outstanding improvement, the night-time free cooling operation contributes to energy conservation and more comfortable space.

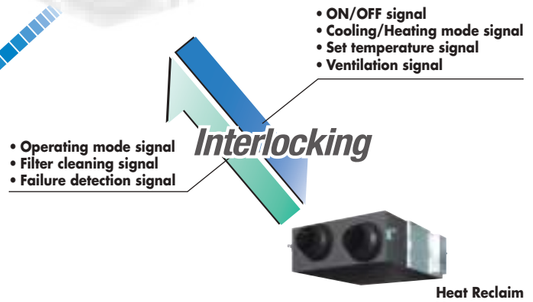
*1 For Model: VAM150/250/350/650/800/1000/2000GJVE
*2 For models: VAM150/250/500GJVE





Daikin air conditioner
Indoor unit

LCD remote controller for indoor unit



For More information 'Scan Me'

Compact Equipment

With a height of just 306mm, the unit easily fits in limited spaces, such as above ceiling.

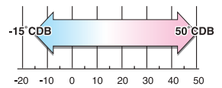
*For VAM500GJVE

Energy Conservation

Air conditioning load reduced by approximately 31%

Cold Climate Compatible

Standard operation at temperatures down to -15°C.



Heat Reclaim Ventilator — VAM Series

Air conditioning load reduced by approximately 31%

23%

Total heat exchange ventilation

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

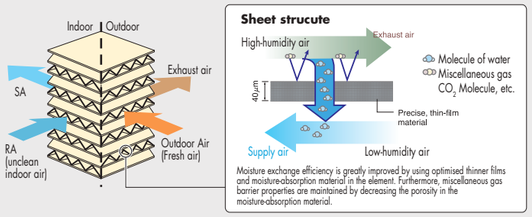
Enthalpy Efficiency drastically improved by employing thin film element (VAM-GJ model)

Due to thinner film.....

- Decreases the moisture resistance of the partition sheets drastically.
- Realises more space for extra layers in the element, resulting in increased effective area that supply and exhaust air can be exposed to.

Moisture absorption increased by approx. 10%

Thickness of the partition sheet **40 μm**



+

6%

Auto-ventilation Mode Changeover Switching

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

+

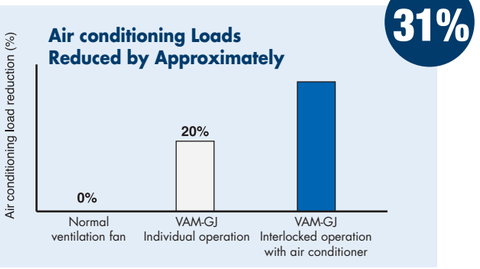
2%

Pre-cool, Pre-heat Control

Reduces air conditioning load by not running the Heat Reclaim ventilator while air is still clean soon after the airconditioner is turned ON.

=

31%



- The air conditioning load reduction value 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:

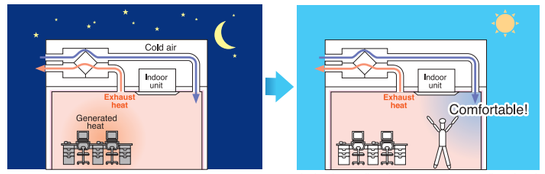
Application: Tokyo office building
Building from: 6 floors above ground, 2 floors underground, floor area 2,100 m^2
Personnel density: 0.25 person/m^2
Ventilation volume: 25 m^3/h
Indoor airconditioning level: summer 25°C 50% RH, intermediate seasons 24°C 50% RH, Winter 22°C 40%RH
Operating time: 2746 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.

Night-time free cooling operation*1

Night-time free cooling operation is an energy-conserving function that works at night when air conditioners are off. By ventilating rooms containing equipment that raises that room temperature, night-time free cooling operation reduces the cooling load when air conditioners are turned on in the morning.
It also alleviated feeling 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.

- Night-time free cooling operation only works to cool and if connected to Building Multi or VRV systems.
- Night-time free cooling operation is set to "off" in the factory setting, so if you wish to use it, request your dealer to turn it on.

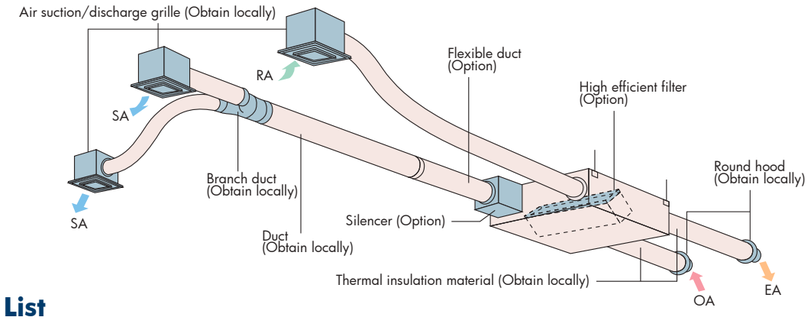
*1 This Function can be operated only when interlocked with air conditioners.
*2 Value is based on the following conditions:
- Cooling operation performed from April to October.
- Calculated for air conditioning sensible heat load only (latent heat load not included).

Specifications

MODEL				VAM250GJVE	VAM500GJVE	VAM650GJVE	VAM800GJVE	VAM1000GJVE	VAM1500GJVE	VAM2000GJVE
Power Supply				1-phase, 220-240 V/ 220 V, 50 Hz						
Temp. Exchange Efficiency (50/60 Hz)		Ultra-High	%	75/75	74/74	75/75	72/72	78/78	72/72	77/77
		High		75/75	74/74	75/75	72/72	78/78	72/72	77/77
		Low		79/79	80/80.5	77/77.5	74/74.5	80.5/81	75.5/76	79/81
Enthalpy Exchange Efficiency (50/60 Hz)	For Heating	Ultra-High	%	71/72	67/67	67.5/67.5	65/65	70/70	65/65	72/72
		High		71/71	67/67	67.5/67.5	65/65	70/70	65/65	72/72
		Low		74/74	74/74.5	71.5/72	67.5/68	72.5/73	67/67.5	76/76
	For Cooling	Ultra-High	%	63/63	55/55	61/61	61/61	64/64	61/61	62/62
		High		63/63	55/55	61/61	61/61	64/64	61/61	62/62
		Low		66/66	59/59.5	64/64.5	64/64.5	68.5/69	64/64.5	66/67
Power Consumption (50/60 Hz)	Heat Exchange Mode	Ultra-High	W	137/141	248/270	342/398	599/680	635/760	1,145/1,300	1,289/1,542
		High		120/125	225/217	300/332	517/597	567/648	991/1,144	1,151/1,315
		Low		60/59	128/136	196/207	435/483	476/512	835/927	966/1,039
	Bypass Mode	Ultra-High	W	137/141	248/270	342/398	599/680	635/760	1,145/1,300	1,289/1,542
		High		120/125	225/217	300/332	517/597	567/648	991/1,144	1,151/1,315
		Low		60/59	128/136	196/207	435/483	476/512	835/927	966/1,039
Sound Level (50/60 Hz)	Heat Exchange Mode	Ultra-High	dB(A)	27-29/29	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		26-27.5/28	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		21-22/21	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	dB(A)	28.5-30.5/30.5	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		27.5-29/29.5	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		22.5-23/22.5	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 Weigh			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 non-flammable paper						
Air Filter				Multidirectional fibrous fleeces						
Fan	Type			Sirocco fan						
	Airflow Rate (50/60 Hz)	Ultra-High	m^3/h	250/250	500/500	650/650	800/800	1,000/1,000	1,500/1,500	2,000/2,000
		High		250/250	500/500	650/650	800/800	1,000/1,000	1,500/1,500	2,000/2,000
		Low		155/155	320/295	500/470	700/670	860/840	1,320/1,260	1,720/1,580
	External Static Pressure (50/60 Hz)	Ultra-High	Pa	70/96	105/150	85/125	133/170	168/192	112/150	116/140
		High		54.65	66/52	53/67	92/85	110/86	73/72	58/32
		Low		24/20	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	ø150	ø 200		ø 250		ø 350	
Unit ambient condition				-15°C–50°CDB, 80%RH or less						

Notes:
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 500m^3/h) to approximately 11 dB(A) (models with the airflow rate of 650m^3/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 2000m^3/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

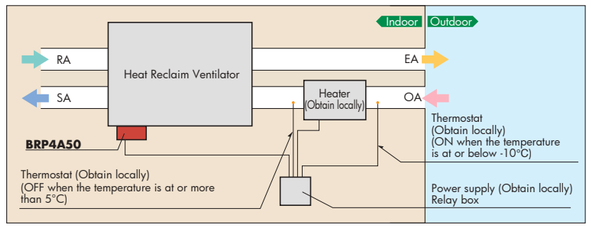
Item			Type	VAM 250 • 500 • 650 • 800 • 1000 • 1500 • 2000 GJVE										
Controlling device	Heat Reclaim Ventilator remote controller			BRC301B61										
	Centralised controlling device	Residential central remote controller		DCS303A51 *1										
		Central remote controller		DCS302CA61										
		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 (indoor unit of VRV)	FXFQ-S FXFQ-LU	FXZQ-M	FXUQ-A	FXCQ-M	FXKQ-MA	FXDQ-PB FXDQ-NB	FXMQ-P	FXMQ-MA	FXHQ-MA	FXAQ-P	FXLQ-MA FXNQ-MA	FXVQ-M
				KRP1C63★	KRP1BA57★	KRP1C67	KRP1B61★	KRP1B61	KRP1B56★	KRP1C64★	KRP1B61	KRP1BA54	—	KRP1B61	KRP1C67
		Installation box for adaptor PCB	☆	Notes 2, 3 KRP1H98	Note 4, 6 KRP1BA101	—	Notes 2, 3 KRP1B96	—	Notes 4, 6 KRP1BA101	Notes 2, 3 KRP4A96	—	Note 3 KRP1CA93	Notes 2, 3 KRP4AA93	—	—

Notes: 1. Installation box ☆ is necessary for each adaptor marked ★.
2. Up to 2 adaptors can be fixed for each installation box.
3. Only one installation box can be installed for each indoor unit.
4. Up to 2 installation boxes can be installed for each indoor unit.
5. Installation box ☆ is necessary for second adaptor.
6. Installation box ☆ is necessary for each adaptor.
7. *1 For residential use only. When connected with a Heat Reclaim Ventilator (VAM), you can only switch the power ON/OFF. Cannot be used with other centralised control equipment.

Item			Type	VAM250GJVE	VAM500GJVE	VAM650GJVE	VAM800GJVE	VAM1000GJVE	VAM1500GJVE	VAM2000GJVE
Additional function	Silencer			—	KDDM24B50		KDDM24B100		KDDM24B100X2	
		Nominal pipe diameter	mm	—	ø 200		ø 250			
	High efficiency filter			KAF242J25M	KAF242J50M	KAF242J65M	KAF242J80M	KAF242J100M	KAF242J80MX2	KAF242J100MX2
	Air filter for replacement			KAF241J25M	KAF241J50M	KAF241J65M	KAF241J80M	KAF241J100M	KAF241J80MX2	KAF241J100MX2
Flexible duct (1 m)				K-FDS151D	K-FDS201D		K-FDS251D			
Flexible duct (2 m)				K-FDS152D	K-FDS202D		K-FDS252D			
Duct adaptor				—					YDFA25A1	
		Nominal pipe diameter	mm	—					ø 250	

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 allow 2 m or more between the electric heater and the Heat Reclaim Ventilator for safety.
- For the Heat Reclaim Ventilator, use a different power supply from that of the electric heater and install a circuit breaker for each.

Note