DAIKIN

VRVXDHK2017-2

Heat Pump 50Hz

R-410A

Next Generation VRV X7 System

VRV X7

*First launched in Japan in 1982, the Daikin **VRV** system has been embraced by world markets for over 30 years. Now, Daikin proudly introduces the next-generation VRV X7 system. It now offers improved energy savings, comfort, and ease of installation to meet an ever wider variety of needs.*

INDEX

Advanced Technologies Achieve

New V-Type Inverter DC Scroll Type Compressor

New

A compressor is the core component of an air-conditioning system that determines the overall performance. With our sound experience in developing compressors and expertise in VRV central air conditioning system, Daikin empowers every VRV unit with a stronger core.

The new V-Type DC Scroll Type Compressor specially developed for the VRV X7 series with cutting-edge technologies and unique materials offers you a unprecedented level of comfort.

Special-Made Spiral Design Compression Chamber

The spiral structure of compression chamber gradually increases the pressure within the chamber as the gas moves inward. High strength material gives 2.4 times tensile strength compare to conventional materials so that it can increase compression chamber volume by using thin spiral design. As a result of having thinned wall-thickness of the scroll, compression chamber volume increase 50%.

V-Type DC Scroll Type Compressor

- Unlike high pressure scroll compressor, the compressor features high-medium pressure separators to prevent ineffective heat loss and boost efficiency.
- The back pressure control technology ensures tightly locked disks under low capacity condition, enhancing the compression efficiency.
- Refrigerant enters the chamber directly without ineffective preheating for higher compression efficiency.

Daikin employs advanced processing technique and high-qu ality parts to ensure efficient operation of the compressor.

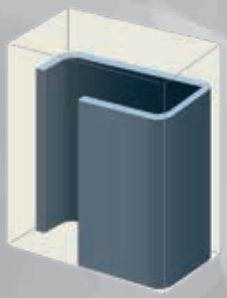
Excellent Performances

Gircle* Highly Integrated Heat Exchanger

New

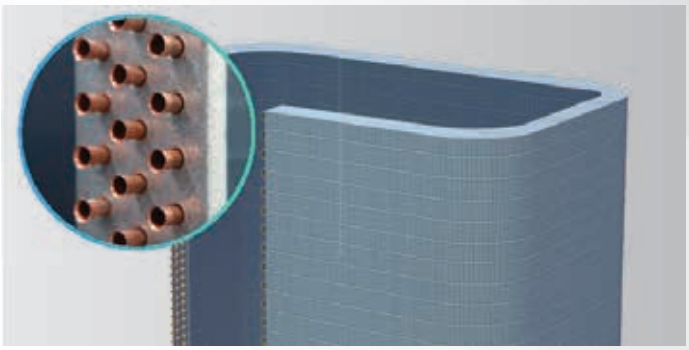
The new Gircle integrated four-way heat exchanger with various fin designs maximizes the surface area of the heat exchanger and enhances the heat exchange rate. It does not only stablise the operation of outdoor units, but also improves the energy-saving performance.

*Note: The abbreviation of Type G integrated round circulation heat exchanger.



Multi-Row Thin Refrigerant Pipes

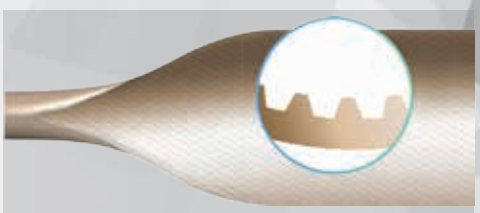
Daikin overcame the challenge of multi-row refrigerant piping design by presenting rows of thinner refrigerant pipes (Ø7) to effectively increase the surface area for refrigerant-air heat exchange and optimize the heat exchange rate.



REFRIGERANT PIPE OF VRV X7 SERIES	CONVENTIONAL REFRIGERANT PIPE
	
Three rows of dia. 7mm copper pipes decreases the flow resistance of the refrigerant and increase heat exchange surface area for better heat exchange efficiency.	Two rows of dia. 8mm copper pipes with relatively higher flow resistance and smaller heat exchange surface area undermine the heat exchange efficiency.

Optimal Spiral Grooves inside the Copper Pipes

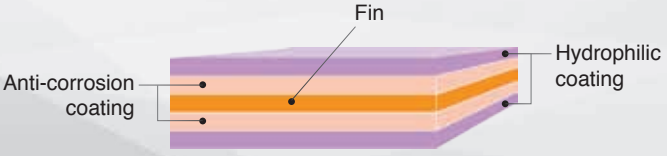
Driven by the relentless pursuit of excellence, Daikin strives to optimize the internal spiral groove design of copper pipes to fit different refrigerant piping structures. After thousands of simulations and tests, Daikin developed the ideal internal spiral groove design for VRV X7 Series that can minimize the turbulent flow of refrigerants while enhancing the heat exchange rate.



Profile of the internal spiral grooves

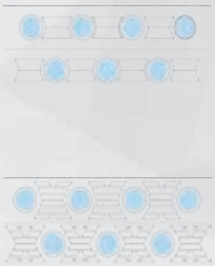
Bilayer coating for better fin protection, lasting and efficient heat exchange

- The hydrophilic layer protects the system against frost in winter
- The anti-corrosion layer protects the heat exchanger against the damage caused by air pollution



Structure of with double-layer coating heat exchanger fin

Development of High-Performing Fins



- The outdoor unit fins can prevent water and dust deposits, and avoid accumulation of molten frost to enhance the heat exchange performance.
- Dense fins are installed in the indoor units to improve the heat exchange performance.

Reliable And Stable System

Advanced Functions for Accurate Test Function and More Stable Operation

With various user-friendly test operation, the VRV X7 Series can automatically check the wiring, piping, refrigerant level and stop valve to speed up the installation process and effectively improve the quality of field settings.

Oil Return Control Technology Guarantees Reliable Operation

Incorporating the findings of Daikin's in-depth VRV system study, the VRV X7 Series monitors the operational data on a real-time basis and determines the best time to carry out oil return using the smart oil return technology.

Meanwhile, Daikin is able to achieve an oil recovery rate of up to 99.9% and stable and efficient operation with the smart cross oil return technology, complemented with smart compressor oil return control technology, outdoor unit oil return control technology, large-volume oil separator and smart oil balancing circuit.

*Daikin's test results

Reliable And Stable System

Cool MAX Refrigerant Cooling Technology

The low-temperature refrigerant can cool down the main PCB, minimizing the size of the outdoor unit and ensuring efficient and stable operation.

Large Airflow Rate Streamlined Scroll Fan And Higher External Static Pressure of Outdoor Unit

New

Daikin has developed a unique fan design for the VRV central air conditioning system using the aeronautic fluid dynamics simulation technology, resulting in more even wind speed, higher airflow rate, less energy consumption and better heat ejection performance.

Upgraded VOS5.0 Control Logic

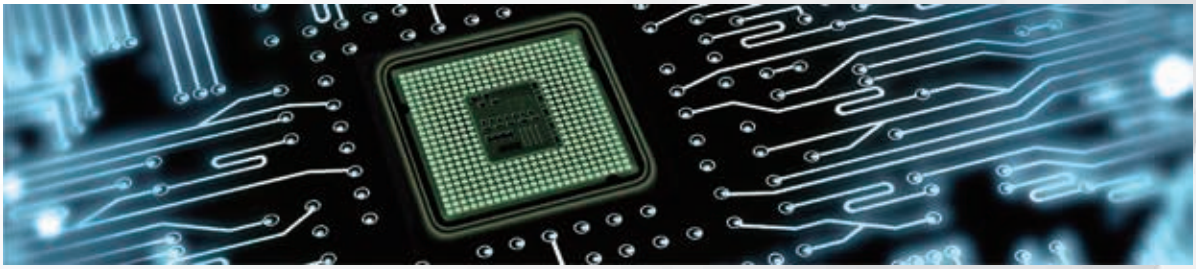
New

By collecting and analyzing the huge volume of operational data of VRV systems across the world for over three decades, Daikin is able to make accurate judgement on the optimal comfort and energy saving levels.

The new VOS (VRV Operating System) 5.0 Control Logic not only controls the refrigerant flow, but also adjusts the condensation/evaporation temperature of refrigerant and the indoor air flow rate* based on the actual load, delivering outstanding energy-saving performance.

*Applicable to selected models only

HIG Smart PCB



Compact and Versatile PCB

As the “brain” of an outdoor air-conditioning system, the PCB marries the wisdom and dreams of Daikin specialists. The VRV X7 Series features the latest HIG Smart PCB which is smaller and highly versatile thanks to the optimized circuit design and upgraded control programme. While it can control multiple units of a VRV system, it also offers electrical leakage detection, phase reversal protection and surge protection.

Conventional PCB

Daikin HIG Smart PCB

- Highly integrated
- Size reduced by 50%
- More stable operation

Reliable And Stable System

Stepless Invertor Technology

Stepless inverter PCB

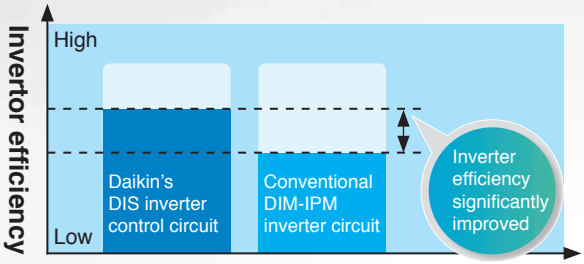
The VRV X7 Series adopts the DC inverter technology and the inverter PCB that supports precise stepless frequency control and energy-saving operation.

The inverter PCB of the compressor

DIS inverter control circuit

Daikin's DIS inverter control circuit combines DIP-IPM and sensorless technology to deliver smoother sine wave and higher inverter efficiency.

- DIP-IPM significantly reduces the inverter energy consumption
- Sensorless technology prevents inventor energy consumption caused by the error of sensor



The graph above is for illustration only

DC Fan Motor and Stepless Inverter PCB for Fan

The VRV X7 outdoor unit comes with a DC outdrive motor (ODM) that significantly improves the efficiency and lowers the energy consumption of the outdoor unit. The inverter PCB for the fan is precisely controlled by a sophisticated stepless inverter to further lower the energy consumption.

NEW DC INVERTER ODM DEVICE

ODM (outdrive motor)

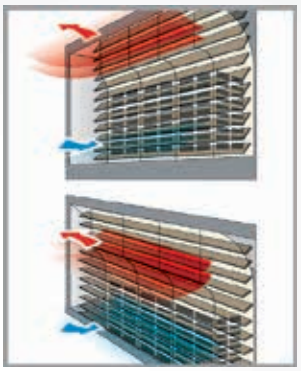
INVERTER PCB FOR FAN

Reliable And Stable System

Ultra-High External Static Pressure Optimizes Heat Ejection for Outdoor Units

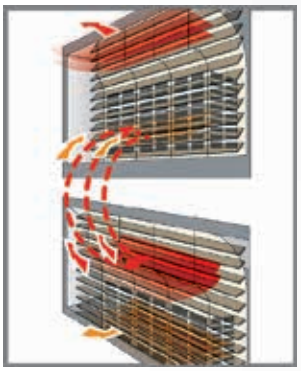
External static pressure of up to 110Pa ensures efficient heat ejection

With an ultrahigh external static pressure of up to 110Pa, the VRV X7 outdoor units can effective eject heat and operate stably whether they are collective installation or on different levels.



Airflow Simulation (Adequate External Static Pressure)

Under identical installation conditions, VRV X7 Series demonstrates better ventilation and optimizes the operation of the outdoor units.



Airflow Simulation (Inadequate External Static Pressure)

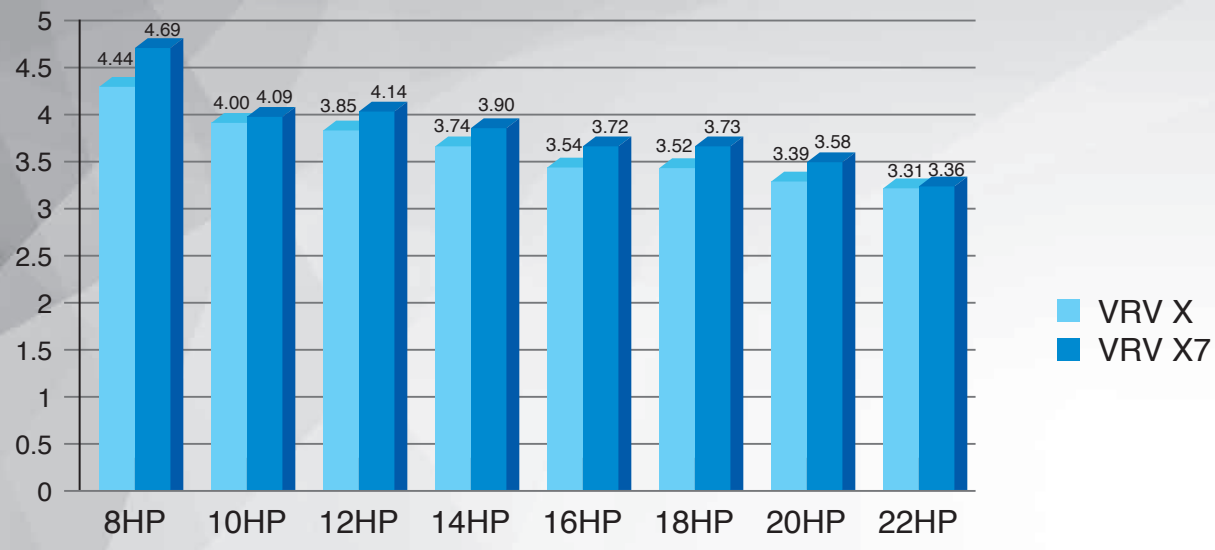
Insufficient external static pressure may lead to short circuit, affecting the system performance or even causing a system breakdown.

Note: Please ensure that there is enough room for ventilation, maintenance and air discharge when an outdoor unit is installed in a plant room. For details, please consult professional Daikin engineers.

Excellent Operation Performance in Compact Design

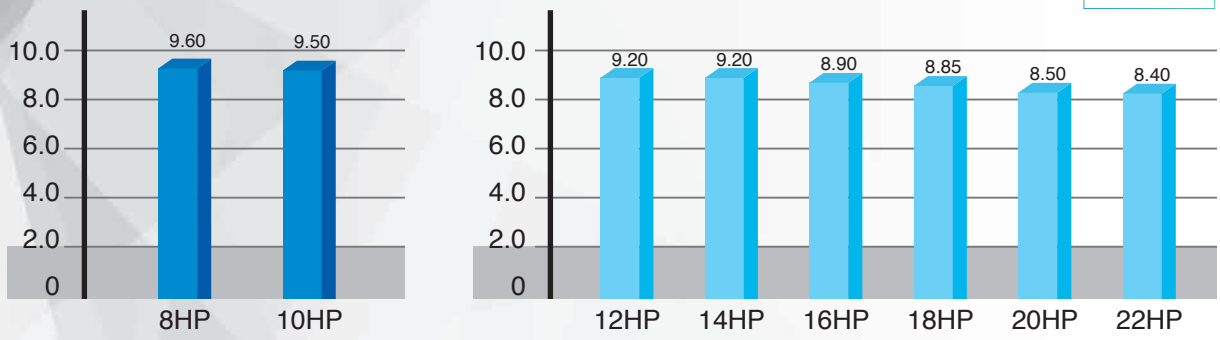
Energy Saving

Improve COP Performance



Energy Efficiency

Maximum IPLV(C) reached 9.6



Note : Based on GB21454-2008 standard, the multiple connections air conditioning (heat pump) system and energy grading is using IPLV(C).

THE INTEGRATED PART LOAD VALUE IPLV(C)

IPLV(C) based on GB/T18837-2002 standard, is used to indicate efficiency of multiple connections air conditioning system, like VRV. IPLV(C) is an efficiency summary of a system at 4 different loadings(100%, 75%, 50% and 25%).

IPLV(C)= 0.05 × 100% COP + 0.3 × 75% COP + 0.4 × 50% COP + 0.25 × 25% COP

IPLV(C) ENERGY LABELLING SCHEME

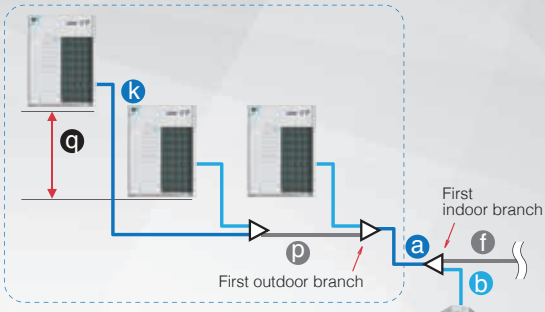
Based on GB21454-2008 standard, multiple connections air conditioning (heat pump) system and energy grading, there are 5 gradings IPLV(C) and Grade 1 is the highest.

Cooling Capacity(CC)W	Energy Label Grading				
	Grade 5	Grade 4	Grade 3	Grade 2	Grade 1
cc≤28000	2.80	3.00	3.20	3.40	3.60
28000≤cc≤84000	2.75	2.95	3.15	3.35	3.55

More Flexible System Design

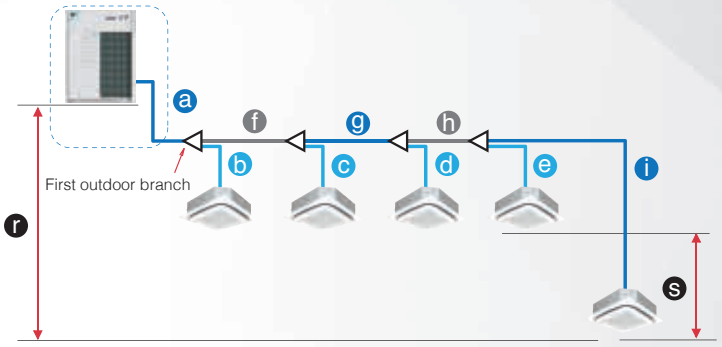
More Options for Installation Location

Multiple use



*The rest of indoor units are the same as for single use.

Single use



Colours in the diagram above are merely for identifying pipes referenced with symbols such as ⓐ.

Long piping length

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

When only VRV indoor units are connected

200 m — **Max. actual piping length**

240 m — **Max. equivalent piping length**

1000 m — **Max. total piping length**

Outdoor unit above indoor unit:

100 m [△1] — **Max. level difference** between the outdoor units and the indoor units

△1. Level differences above 50m are available on request.

Outdoor unit below indoor unit:

110 m [△2]

△2. Level differences above 90m are available on request.

Maximum allowable piping length

	Actual piping length	Example	Equivalent piping length
Refrigerant piping length	200 m	a+f+g+h+i	240 m
Total piping length	1000 m	a+b+c+d+e+f+g+h+i	—
Between the first indoor branch and the farthest indoor unit	120 m *1	f+g+h+i	—
Between the outdoor branch and the last outdoor unit	10 m	k+p	13 m

Maximum allowable level difference

		Level Difference	Example
Between the outdoor units (Multiple use)		5 m	q
Between the indoor units		40 m	s
Between the outdoor units and the indoor units	If the outdoor unit is above.	Available on request 100 m *2	r
	If the outdoor unit is below.	Available on request 110 m *3	f

*1. No special requirements up to 40 m. The maximum actual piping length can be 120 m, depending on conditions. Various conditions and requirements have to be met to allow utilisation of 120 m piping length. Be sure to refer to the Engineering Data Book for details of these conditions and requirements.
*2. Level differences above 50 m are not supported by default but are available on request (If the outdoor unit is above the indoor unit).
*3. Level differences above 90 m are not supported by default but are available on request (If the outdoor unit is below the indoor unit).

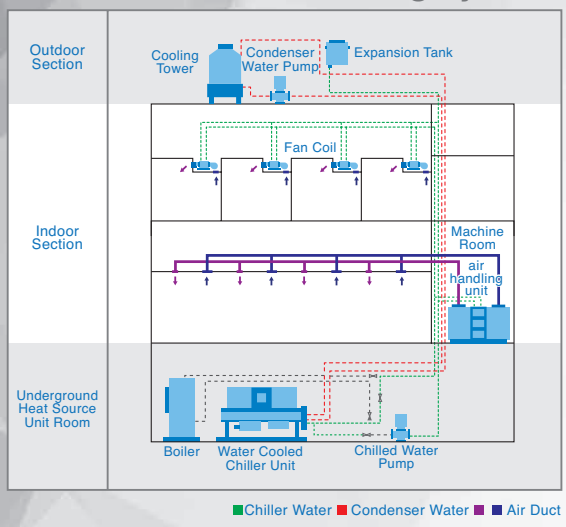
Project Running Will Be More Flexible

Centralized Air Conditioning System Makes It More Flexible

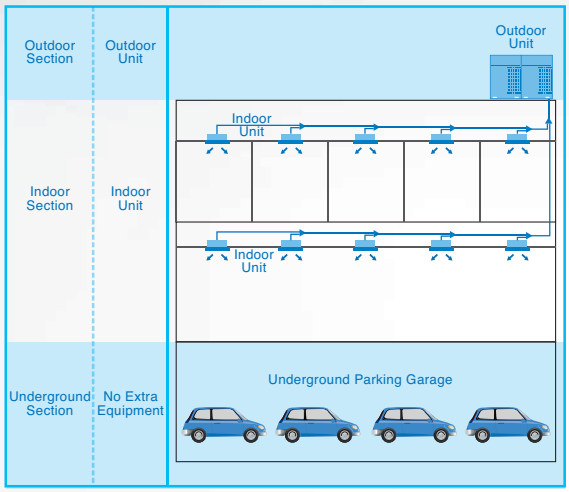
Daikin VRV X7 system is a centralized air conditioning system. Main components are indoor and outdoor unit.

It makes everything simply to ensure the quality of installation and complete the project on time.

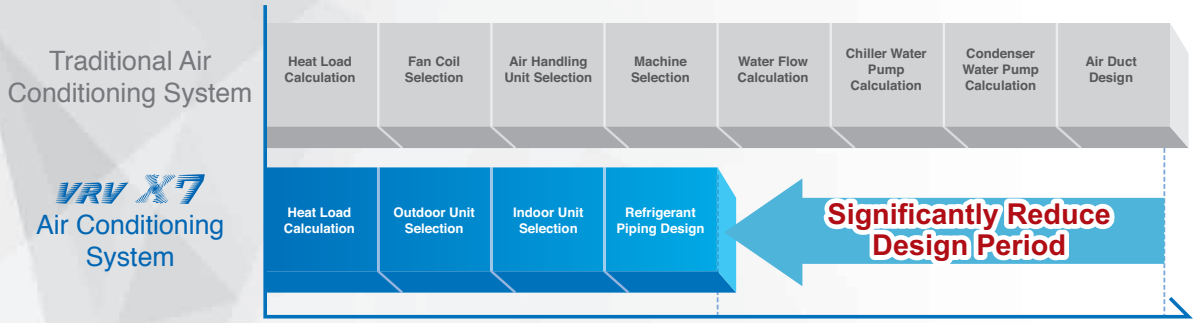
Traditional Air-Conditioning System



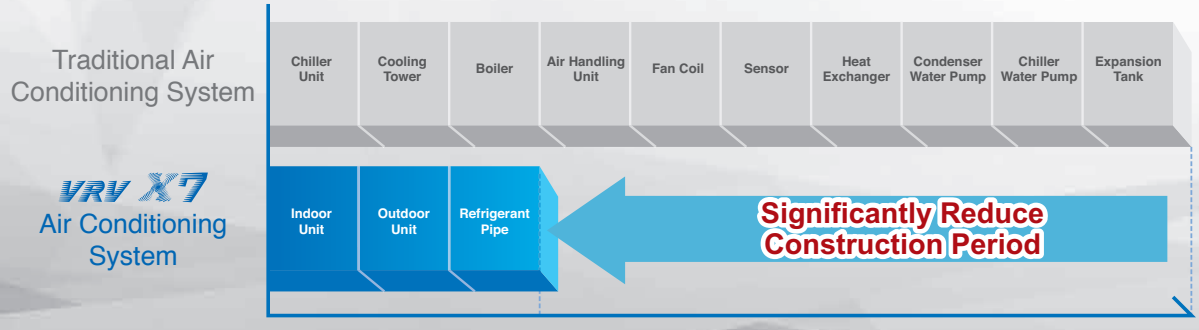
VRV X7 Air-Conditioning System



Design Stage



Installation Stage

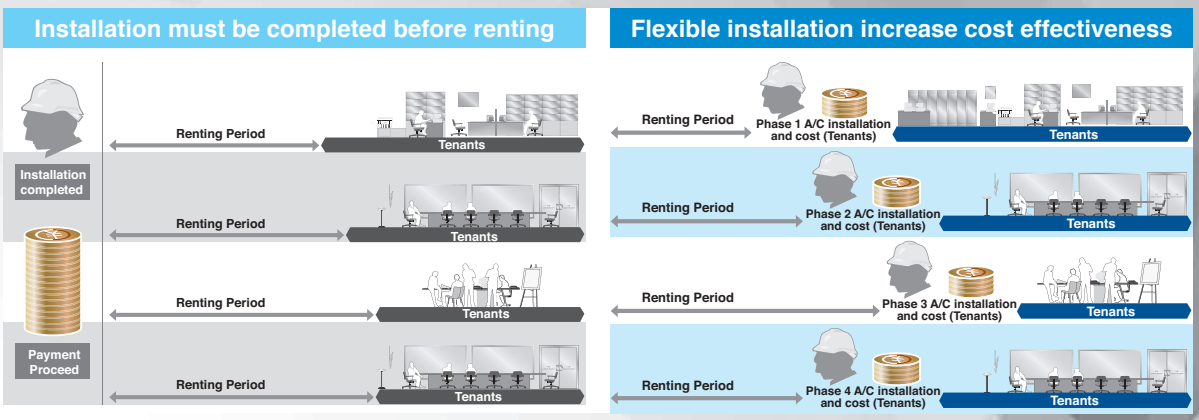


For Reference Only

Project Running Will Be More Flexible

More flexible installation

VRV X7 is a flexible system which allows customers to increase cost effectiveness by completing the installation phase by phase.



Traditional Air-conditioning System

VRV X7 Air-conditioning System

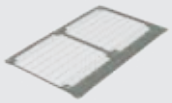
Quiet Operation

Lower operation sound

Improves heat exchanger efficiency, helps to reduce operation sound.

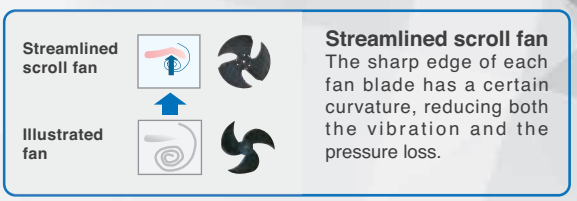
Large airflow, high static pressure and quiet technology

Without increasing operation sound, advanced analytic technologies are utilized to optimise fan design and increase airflow rate and high external static pressure of 110 Pa.



Streamlined air grille

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



Streamlined scroll fan

The sharp edge of each fan blade has a certain curvature, reducing both the vibration and the pressure loss.

Various Low Operation Sound Technologies for a Tranquil Environment

Enjoy wonderful quietness indoor environment

The ceiling mounted cassette (round flow) indoor unit features a turbo fan with serrated edges to achieve a silent environment. The laser welding technology also ensures quiet and reliable operation. The duct type indoor units feature a Sirocco multi-blade fan with a suction inlet with interior wavy patterns. The 3D airflow fan blades, rotating shaft, dislocated design and non-equidistant structure can effectively minimize the operating sound level.

Minimize outdoor noise pollution

The new cotton insulation fits the compressor perfectly to cushion vibration and minimize the noise level. Outdoor units also feature a silent night mode that allows them to operate at a minimal operating sound level of 40dB.*

*Note: Internal test results

Indoor Unit

VRV X7

Ceiling Mounted Cassette
(Round Flow with Sensing) Type

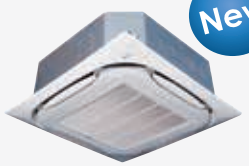
Ceiling Mounted Duct
(3D Airflow with Sensing)
(3D Airflow) Type

VRV Indoor Units

Daikin offers a wide range of VRV indoor units responding to variety of needs of our customers that require air-conditioning solutions.

Ceiling Mounted Cassette (Round Flow with Sensing) Type
FXFSP-BA

New



- **360°** even airflow for added comfort
- Detects human activities and adjusts airflow smartly
- Detects the floor temperature to create a consistently comfortable environment

Ceiling Mounted Cassette (Round Flow) Type
FXFP-LVC

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

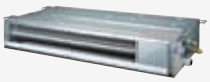
Ceiling Mounted Duct (3D Airflow with Sensing) Type
FXDSP-ABP

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

Ceiling Mounted Duct (3D Airflow) Type
FXDAP-ABP

- 3D airflow improves temperature distribution and offers a comfortable living environment.

Slim Ceiling Mounted Duct (Compact) Type
FXDP-QPVC



Slim Ceiling Mounted Duct Type
FXDP-QPVC

- Slim design, quietness and static pressure switching.

Ceiling Mounted Duct Type
FXMP-BA(BB)

New

- Supports 14 levels of external static pressure auto-adjustment for easier installation
- External static pressure of up to 200Pa enables flexible duct setting

Ceiling Mounted Built-in Type
FXSP-CA

New

- High external static pressure enables flexible duct setting

Ceiling Mounted Cassette (Double Flow) Type
FXCP-MMVC

- Thin, lightweight and easy to install in narrow ceiling spaces.

Ceiling Mounted Cassette Corner Type
FXCP-EPVC

- Slim design for flexible installation.

Floor Standing Type
FXNP-MLVC

Concealed Floor Standing Type
FXNP-MNVC

- Suitable for perimeter zone air conditioning.

Ceiling Mounted Duct (Large Capacity) Type
FDXQA020AA

New

- High capacity of 50kW for large space
- External static pressure of up to 550Pa

Wall Mounted Type
FXAP-NVC

- Stylish flat panel design harmonised with your interior décor.

VRV Indoor Units

Wide Range Of Choices

Type	Model		2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1	8.0	9.0	10.0	11.2	12.5	14.0	15.0	16.0	50.0
New Ceiling Mounted Cassette (Round Flow with Sensing) Type	FXFSP-BA		•		•		•		•		•		•	•	•	•	•	•	•			
Ceiling Mounted Cassette (Round Flow) Type	FXFP-LVC				•		•		•		•		•	•	•	•	•	•	•			
Ceiling Mounted Cassette (Double Flow) Type	FXCP-MMVC		•		•		•		•		•		•		•				•			
Ceiling Mounted Cassette Corner Type	FXCP-EPVC		•	•	•	•	•	•	•	•	•	•	•									
New Ceiling Mounted Duct Type	FXMP-BA				•		•	•	•						•		•		•		•	
	FXMP-BB										•	•	•									
New Ceiling Mounted Built-in Type	FXSP-CA		•		•		•		•		•		•	•	•	•	•	•	•	•	•	
New Ceiling Mounted Duct (Large Capacity) Type	FDXQA020AA																					•
Ceiling Mounted Duct (3D Airflow with Sensin) Type	FXDSP-ABP		•	•	•	•	•	•	•	•	•	•	•									
Ceiling Mounted Duct (3D Airflow) Type	FXDAP-ABP		•	•	•	•	•	•	•	•	•	•	•									
Slim Ceiling Mounted Duct (Compact) Type	FXDP-QPVC		•	•	•	•	•	•	•	•	•	•	•									
Slim Ceiling Mounted Duct Type	FXDP-QPVC													•	•	•	•					
Concealed Floor Standing Type	FXNP-MNVC		•		•		•		•		•		•									
Floor Standing Type	FXNP-MLVC		•		•		•		•		•		•									
Wall Mounted Type	FXAP-NVC		•		•		•															

VRV Indoor Units

Ceiling Mounted Cassette (Round Flow with Sensing) Type

FXFSP – BA

FXFSP22/28/36/45/56/71/ 80/90/100/112/125/140BA

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

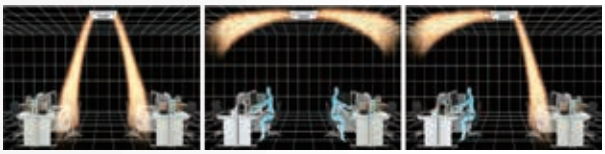
PM2.5 filter (option)

Type F wired remote controller (option)

LCD wireless remote controller BRC7L611 (option)

Intelligent Individual Airflow Direction Control

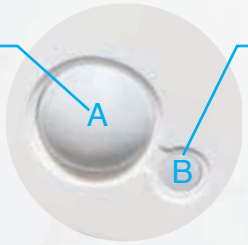
The four discharge outlets can be controlled individually to create 625 different airflow angle combinations. The intelligent control can prevent exposure to direct wind.



Dual Sensors

Infrared Presence Sensor

The intelligent presence sensor detects the human movement in a room and adjusts the louver angle to avoid direct wind.



Infrared Floor Temperature Sensor

The sensor detects the floor temperature and adjusts the system accordingly, offering a consistent and comfortable experience.

360° Even Airflow Discharge

The 360° airflow discharge leads to uniform temperature distribution across the room without dead corners. The gentle wind speed offers added comfort.

Energy-Saving Mode in Unoccupied Space

With the latest infrared presence sensor, when the room is unoccupied, the system will automatically adjust the temperature (higher temperature when the room is cold or vice versa).

Optional PM2.5 Filter

The PM2.5 filters installed at the return air inlets can maintain the freshness of air.

Top-Down Airflow for High Ceiling Space

The system easily fits in any space with a high ceiling up to 4.2m*.

*Remote control setting required

New Glossy White Panel Design (by Daikin)

The new glossy white front panel helps deliver air to all directions and prevents dew condensation.

VRV Indoor Units

Ceiling Mounted Duct (3D Airflow with Sensing) Type (3D Airflow) Type

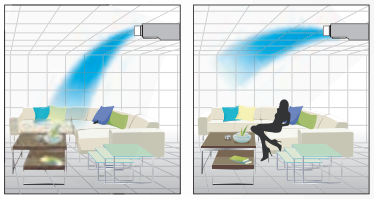
FXDSP-ABP
3D Airflow with Sensing

FXDAP-ABP
3D Airflow

FXDSP - ABP FXDAP - ABP
FXDSP / FXDAP22
FXDSP / FXDAP25
FXDSP / FXDAP28
FXDSP / FXDAP32
FXDSP / FXDAP36
FXDSP / FXDAP40
FXDSP / FXDAP45
FXDSP / FXDAP50
FXDSP / FXDAP56
FXDSP / FXDAP63
FXDSP / FXDAP71

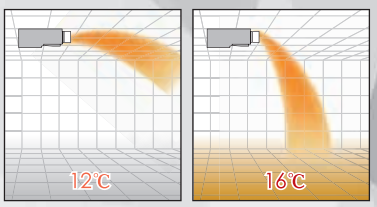
Infrared Presence Sensor

The presence sensor adjusts the set point if no one is detected in the room. It also automatically directs air flow away from people to avoid draughts.



Infrared Floor Sensor

The floor sensor detects the average floor temperature and ensures even temperature distribution between ceiling and floor.



Stylish panel

- Stylish flat panel design creates a graceful harmony that enhances any interior space
- Flap close automatically when the unit stops, which gives a simple appearance
- Panel with non-flocking surface can prevent dew condensation

Comfortable airflow

Airflow angles can be set by remote controller (BRC1F611) to prevent draft

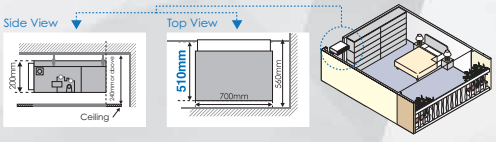
form vertical 0-60° and horizontal 45° each side

Energy saving operation – DC fan motor

The use of a DC fan motor offers substantial improvements in operating efficiency

Slim design

Only 200 mm height and can be installed in a ceiling space of 240 mm



For FXDSP-ABP

Type E wired remote controller (option)

Type F wired remote controller (option)

LCD wireless remote controller BRC4L611 (option)

For FXDAP-ABP

Type E wired remote controller (option)

Type F wired remote controller (option)

LCD wireless remote controller BRC4L621 (option)

VRV Indoor Units

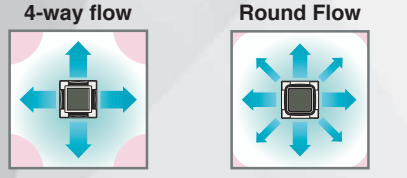
Ceiling Mounted Cassette (Round Flow) Type

FXFP - LVC

FXFP28 / FXFP36 / FXFP45
FXFP56 / FXFP71 / FXFP80
FXFP90 / FXFP100 / FXFP112
FXFP125 / FXFP140

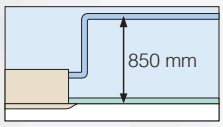
360° airflow improves temperature distribution and offers a comfortable living environment.

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



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

- The light weight unit at 20 kg for FXFP28-45LVC models makes installation easy.
- Drain pump is equipped as a standard accessory with a 850 mm lift.



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

Condition after exposure to the smoke of 600 cigarettes in $1m^3$ enclosed space.

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

- The horizontal louvres prevent dew condensation. Their non-flocking surfaces, which repel dirt, are easy to clean.


PM2.5 filter (option)

Type E wired remote controller (option)

Type F wired remote controller (option)


Type C wired remote controller BRC1C611 (option)


LCD wireless remote controller BRC7F634F1 (option)


LCD wireless remote controller BRC7F634K1 (option)

VRV Indoor Units

Slim Ceiling Mounted Duct Type

FXDP - QPVC

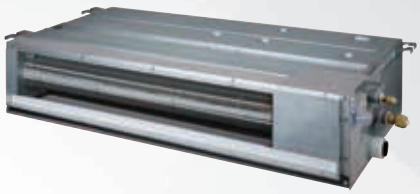
FXDP22 / FXDP25 / FXDP28 / FXDP32 / FXDP36 / FXDP40 / FXDP45 / FXDP50 / FXDP56 / FXDP63 / FXDP71

FXDP - QPVC

FXDP80 / FXDP90 / FXDP100 / FXDP112

Suited to use in drop-ceilings!

Great for hotel use!

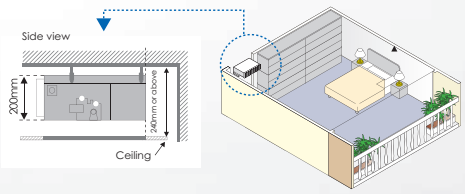


Slim Ceiling Mounted Duct (Compact) Type

Slim Ceiling Mounted Duct Type

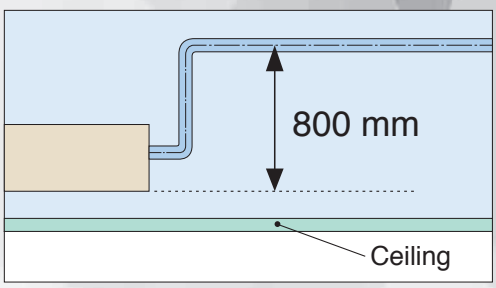
Slim design, quietness and static pressure switching

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



- Only 200 mm height end can be installed in ceiling space as narrow as 240 mm.
- External static pressure selectable by remote controller switching make this indoor unit a very comfortable and flexible model.

  10Pa - 30Pa / factory set: 10Pa for FXDP22-45
  20Pa - 50Pa / factory set: 20Pa for FXDP50-71
  20Pa - 40Pa / factory set: 20Pa for FXDP80-112



- FXDP-QPVC models are available in two types to suit different installation conditions. Drain pump is equipped as a standard accessory with a 800 mm lift.

  *Slim Ceiling Mounted Duct (Compact) Type: with a drain pump (750 mm lift) as a standard accessory.

Type E wired remote controller (option)

Type F wired remote controller (option)

Type C wired remote controller BRC1C611 (option)

LCD wireless remote controller BRC4L631 for compact type(option)

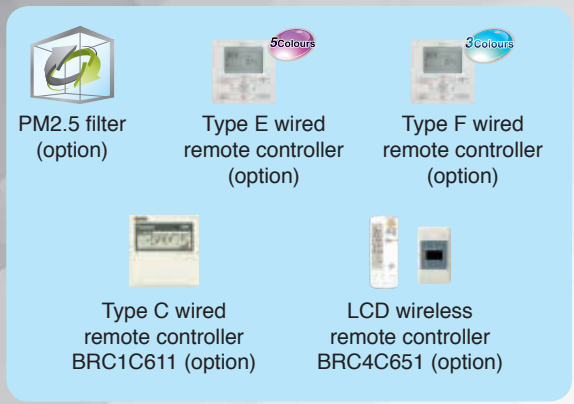
LCD wireless remote controller BRC4C651 for large type (option)

VRV Indoor Units

Ceiling Mounted Duct Type

FXMP-BA (BB)

FXMP28/36/40/45/90/112/140/160BA FXMP56/63/71BB



PM2.5 filter (option)

Type E wired remote controller (option)

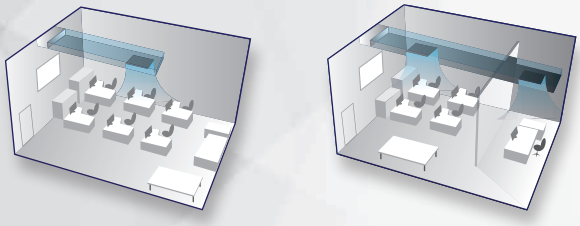
Type F wired remote controller (option)

Type C wired remote controller BRC1C611 (option)

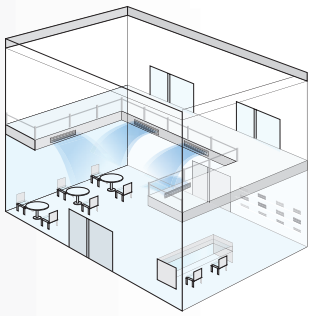
LCD wireless remote controller BRC4C651 (option)

Ultra-High External Static Pressure for More Flexible Installation

With an external static pressure of up to **200Pa**, the unit can flexibly fit different types on installation space.



Partitioned Installation Design



Space with High Ceiling Design

Flexible Static Pressure

Supports **14 levels of static pressure** adjustment that can be set using the remote control to meet different needs.

- Manual adjustment
  Users may set the external static pressure (up to 14 levels, depending on the capacity level) using the remote control.
- Automatic adjustment
  Under the “Auto airflow rate” mode, the unit automatically detects and adjusts the static pressure.

Flexible Outlet Designs

Various outlet designs are available to match different rooms and styles.

VRV Indoor Units

Ceiling Mounted Built-In Type

FXSP – CA

FXSP22/28/36/45/56/71/80/90 /100/112/125/140/150/160CA


PM2.5 filter (option)

Type E wired remote controller (option)

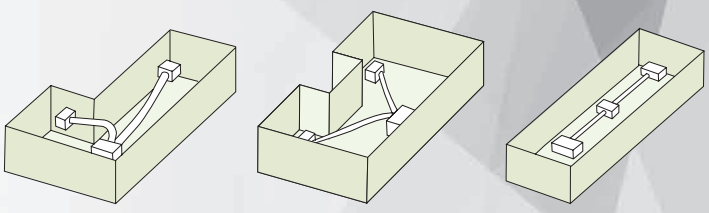
Type F wired remote controller (option)


Type C wired remote controller BRC1C611 (option)


LCD wireless remote controller BRC4C651 (option)

High Level of Adaptability for Different Room Type Installations

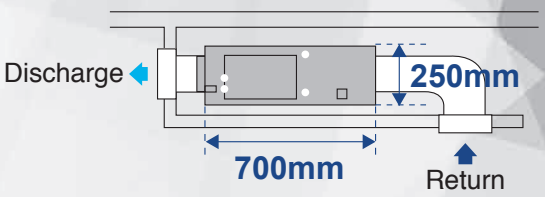
The air outlets can be installed away from the main unit in an L-shaped or U-shaped room type to match the locations of lighting fixtures or human activities. Even air distribution and optimal comfort can be achieved in an irregular space.



L-shaped Room | U-shaped Room | Narrow Room

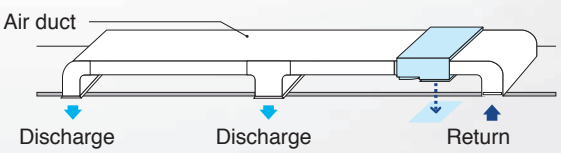
Compact Design with Large Capacity

The unit is just **250mm** in thickness and **700mm** in depth. With a capacity of **2.2kW to 16kW**, it works with a duct to blend in with the interior décor, and creates a comfortable and beautiful space regardless of its size.

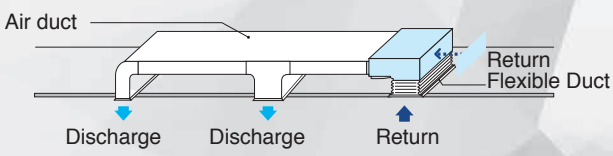


Flexible and Convenient Air Return Method

To change the air return method, simply remove the bottom panel and reinstall it on the back slot. No extra work is required on-site, simplifying the installation and shortening the installation time.



Default setting (back return)



On-site installation (bottom return)

VRV Indoor Units

Ceiling Mounted Cassette (Double Flow) Type

FXCP - MMVC

FXCP22 / FXCP28 / FXCP36
FXCP45 / FXCP56 / FXCP71
FXCP90 / FXCP140

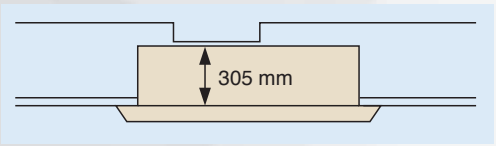
Type E wired remote controller (option)

Type F wired remote controller (option)

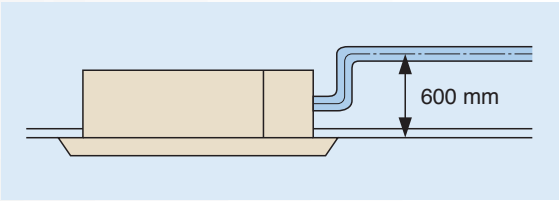
Type C wired remote controller BRC1C611 (option)

Thin, lightweight, and easy to install in narrow ceiling spaces

- The thin unit (only 305 mm high) can be installed in a ceiling space as narrow as 350 mm. All models feature a compact design with a depth of only 600 mm.



- Designed with higher airflow suitable for high ceiling application up to 3 metres.
- Providing 2 different settings of standard and ceiling soiling prevention, the auto swing mechanism realises even distribution of airflow and room temperature.
- Drain pump is equipped as standard accessory with 600 mm lift.



- Major maintenance work can be performed by removing the panel. A flat-type suction grille and a detachable blade make cleaning easy.

VRV Indoor Units

Ceiling Mounted Cassette Corner Type

FXCP - EPVC

FXCP22 / FXCP25 / FXCP28
FXCP32 / FXCP36 / FXCP40
FXCP45 / FXCP50 / FXCP56
FXCP63 / FXCP71

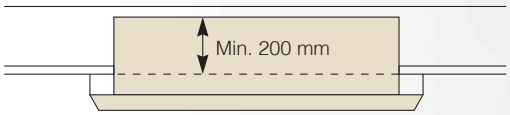
Type E wired remote controller (option)

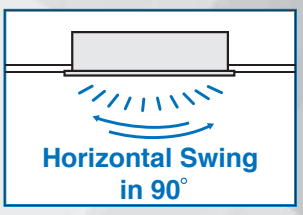
Type F wired remote controller (option)

LCD wireless remote controller BRC7L661 (option)

Slim design for flexible installation

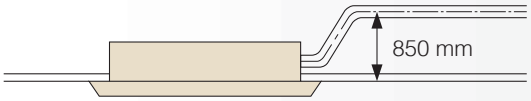
- The unit can be installed in the minimun space of 200 mm above.

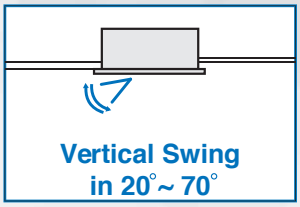




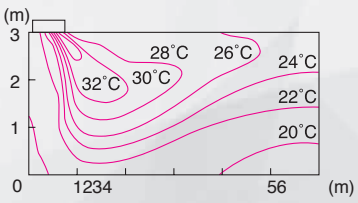
- Single-flow type allows effective air discharge from corner or from drop-ceiling.

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





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



VRV Indoor Units

Floor Standing Type

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.

FXNP - MLVC

FXNP22 / FXNP28
FXNP36 / FXNP45
FXNP56 / FXNP71

Floor Installation **Wall Hanging**

Type E wired remote controller (option)

Type F wired remote controller (option)

Type C wired remote controller BRC1C611 (option)

LCD wireless remote controller BRC4C623 (option)

Concealed Floor Standing Type

Designed to be concealed in the perimeter skirting-wall

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

FXNP - MNVC

FXNP22 / FXNP28
FXNP36 / FXNP45
FXNP56 / FXNP71

Type E wired remote controller (option)

Type F wired remote controller (option)

Type C wired remote controller BRC1C611 (option)

LCD wireless remote controller BRC4C623 (option)

VRV Indoor Units

Ceiling Mounted Duct (Large Capacity) Type

FDXQA-AA

FDXQA020AA

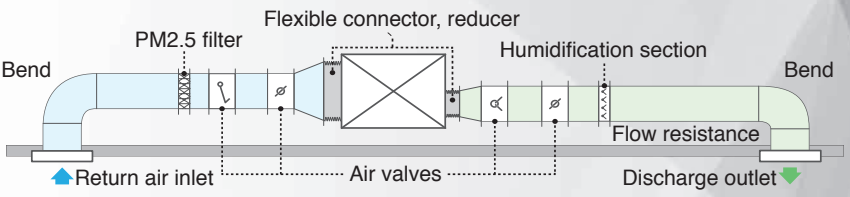
Type C wired remote controller BRC1C611 (option)

Type E wired remote controller (option)

Type F wired remote controller (option)

The Indoor Unit Special Made for Large Space with Ultrahigh Static Pressure of Up to 550Pa

The ultrahigh external static pressure helps the air delivery in large space design that fit all kinds of discharge systems and accessories, delivering comfortable airflow to all corners.



Pressure loss (in Pa)

Part	Discharge outlet	Bend	Flexible connector/ reducer	Return air inlet	PM2.5 filter	Humidification section	Air valves	Air duct
Pressure loss per unit	10	5	20	10	110	40	30	1
Quantity	1	2	2	1	1	1	4	60m
Total pressure loss	10	10	40	10	110	40	120	60

Total pressure loss of 400Pa, far below 500Pa

Wall Mounted Type

FXAP - NVC

FXAP22 / FXAP28 / FXAP36

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.
- Flat panel can also be easily removed and washed for more thorough cleaning.
- Low operation sound level
- 5 steps of discharge angle can be set by remote controller.
- Discharge angle is automatically set at the same angle as the previous operation when restarting (Initial setting: 10° for cooling and 70° for heating).
- Comfortable air distribution
  Auto-swing realises effciency of air distribution.

  The louvre closes automatically when until stops.

LCD wireless remote controller BRC7E718W (option)

Type E wired remote controller (option)

Type F wired remote controller (option)

Type C wired remote controller BRC1C611 (option)

Heating Operation

Cooling Operation

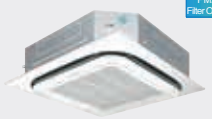
Indoor Unit Lineup

Ceiling Mounted Cassette (Round Flow with Sensing) Type

Model			FXFSP 22BA	FXFSP 28BA	FXFSP 36BA	FXFSP 45BA	FXFSP 56BA	FXFSP 71BA	FXFSP 80BA	FXFSP 90BA	FXFSP 100BA	FXFSP 112BA	FXFSP 125BA	FXFSP 140BA
Power Supply			1 - Phase 220V, 50Hz											
Rated Cooling Capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	10.0	11.2	12.5	14.0
Rated Heating Capacity		kW	2.5	3.2	4.0	5.0	6.3	8.0	9.0	10.0	11.2	12.5	14.0	16.0
Rated Power Consumption	Cooling	W	40	49		59	94	99	146				220	
	Heating	W	36	45		55	90	95	142				210	
Dimension (H x W x D)		mm	204 × 840 × 840				246 × 840 × 840						288 × 840 × 840	
Airflow Rate		m³/min	10.2/9.9/9.6 /9.3/9.0	12.5/11.7/10.8/9.9/9.0		13.5/12.4/11.4 /10.2/9.0	20.1/18.6/17.1 /15.6/14.0	21.5/19.9/18.3 /16.7/15.1	25.4/23.2/21.1/19.1/16.8				30.0/27.5/25.0/22.5/20.0	
Sound Level		dB(A)	29/28/27/ 26/25	30/29/28/27/25		32/31/29/ 28/25	36/35/33/ 32/30	37/36/34/ 33/31	41/39/37/35/33				44/42/39/37/34	
Piping Connections	Liquid	mm	Ø 6.4					Ø 9.5						
	Gas	mm	Ø 12.7					Ø 15.9						
	Drain		I.D.Ø25 × O.D.Ø32 (PVC32)											
Included lift pump head		mm	850											
Machine Weight		kg	20				24						26	
Max. Fuse Amps	MFA	A	16											
Min. Circuit Amps	MCA	A	0.3	0.4		0.5	0.8				1.1		1.5	
Panel Option	Model		BYCP125BW1C9											
	Dimension	mm	50 × 950 × 950											
	Weight	kg	5.5											
PM2.5 Filter Options	Model (filter / replacement filter)		BAFP349A140 / BAFP344A140											
	Process Airflow Rate	m³/min	12.5~19						23~25.3				27~31	
	Initial Pressure Drop (final pressure drop)	Pa	Below 20 (below 50)						Below 30 (below 55)				Below 40 (below 60)	

* Choosing optional PM2.5 electrostatic filter for PM2.5 purification function

Ceiling Mounted Cassette (Round Flow) Type



Model			FXFP28 LVC	FXFP36 LVC	FXFP45 LVC	FXFP56 LVC	FXFP71 LVC	FXFP80 LVC	FXFP90 LVC	FXFP100 LVC	FXFP112 LVC	FXFP125 LVC	FXFP140 LVC
Power Supply			1 - Phase 220V, 50Hz										
Rated Cooling Capacity		kW	2.8	3.6	4.5	5.6	7.1	8.0	9.0	10.0	11.2	12.5	14.0
Rated Heating Capacity		kW	3.2	4.0	5.0	6.3	8.0	9.0	10.0	11.2	12.5	14.0	16.0
Rated Power Consumption	Cooling	W	53		63	74	86	111		156		220	
	Heating	W	45		55	69	80	100		142		210	
Dimension (H x W x D)		mm	204 × 840 × 840					246 × 840 × 840				288 × 840 × 840	
Airflow Rate		m³/min	12.5/10.8/9		13.5/11.3/9	15.4/12.8/10.2	16.1/13.6/11	23.1/18.8/14.5		25.4/21.1/16.8		30/25/20	
Sound Level		dB(A)	30/28/25		32/29/25	33/30/27	34/31/28	38/34/29		41/37/33		44/39/34	
Piping Connections	Liquid	mm	Ø 6.4				Ø 9.5						
	Gas	mm	Ø 12.7				Ø 15.9						
	Drain		I.DØ25 × O.D.Ø32 (PVC32)										
Included lift pump head		mm	850										
Machine Weight		kg	20			21		24				26	
Max. Fuse Amps	MFA	A	16										
Min. Circuit Amps	MCA	A	0.4		0.5		0.6	0.8		1.1		1.5	
Panel Option	Model		BYCP125KW1C(White) / BYCP125KK1C(Black)										
	Dimension	mm	50 × 950 × 950										
	Weight	kg	5.5										
PM2.5 Filter Options	Model (filter / replacement filter)		BAFP349A140 / BAFP344A140										
	Process Airflow Rate	m³/min	12.5~19					23~25.3				27~31	
	Initial Pressure Drop (final pressure drop)	Pa	Below 20 (below 50)					Below 30 (below 55)				Below 40 (below 60)	

* Choosing optional PM2.5 electrostatic filter for PM2.5 purification function

Ceiling Mounted Cassette (Double Flow) Type

Model			FXCP22 MMVC	FXCP28 MMVC	FXCP36 MMVC	FXCP45 MMVC	FXCP56 MMVC	FXCP71 MMVC	FXCP90 MMVC	FXCP140 MMVC
Power Supply			1 - Phase 220V, 50Hz							
Rated Cooling Capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	14.0
Rated Heating Capacity		kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	16.0
Rated Power Consumption	Cooling	W	77	92		130		161	209	256
	Heating	W	44	59		97		126	176	223
Dimension (H x W x D)		mm	305 × 775 × 600			305 × 990 × 600		305 × 1175 × 600	305 × 1665 × 600	
Airflow Rate		m³/min	7/5	9/6.5		12/9		16.5/13	26/21	33/24
Sound Level		dB(A)	32/27	35/29		35/30		40/35	41/36	46/40
Piping Connections	Liquid	mm	Ø 6.4					Ø 9.5		
	Gas	mm	Ø 12.7					Ø 15.9		
	Drain		I.D.Ø25 × O.D.Ø32 (PVC32)							
Included lift pump head		mm	600							
Machine Weight		kg	26			31	32	35	47	48
Max. Fuse Amps	MFA	A	15							
Min. Circuit Amps	MCA	A	0.5			0.8		0.9	1.1	1.3
Panel Option	Model		BYBC32G-W18			BYBC50G-W18		BYBC63G-W18	BYBC125G-W18	
	Dimension	mm	53 × 1030 × 680			53 × 1245 × 680		53 × 1430 × 680	53 × 1920 × 680	
	Weight	kg	8			8.5		9.5	12	

Indoor Unit Lineup

Ceiling Mounted Cassette Corner Type

Model			FXCP22 EPVC	FXCP25 EPVC	FXCP28 EPVC	FXCP32 EPVC	FXCP36 EPVC	FXCP40 EPVC	FXCP45 EPVC	FXCP50 EPVC	FXCP56 EPVC	FXCP63 EPVC	FXCP71 EPVC
Power Supply			1 - Phase 220V, 50Hz										
Rated Cooling Capacity		kW	2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1
Rated Heating Capacity		kW	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1	8.0
Rated Power Consumption	Cooling	W	26		27		34	39	46	48		52	67
	Heating	W	22		23		30	35	42	44		48	63
Dimension (H x W x D)		mm	200 × 840 × 470							200 × 1240 × 470			
Airflow Rate	Cooling	m³/min	6.0/5.4/4.9/4.4/4.0	6.2/5.7/5.2/4.7/4.3	6.9/6.4/5.8/5.3/4.8	7.4/6.8/6.2/5.7/5.1	8.0/7.5/7.0/6.3/5.5	8.8/8.0/7.2/6.6/5.9	9.8/8.8/7.8/7.0/6.2	12.0/11.0/10.0/9.2/8.4	12.5/11.4/10.4/9.5/8.7	13.5/12.2/11.0/10.0/9.0	15.0/13.6/12.2/11.0/9.8
	Heating	m³/min	6.0/5.6/5.1/4.7/4.2	6.5/6.0/5.4/5.0/4.5	7.2/6.7/6.1/5.6/5.0	7.7/7.1/6.6/6.0/5.4	8.6/8.0/7.4/6.7/6.0	9.2/8.5/7.8/7.1/6.4	10.2/9.3/8.4/7.6/6.8	13.5/12.4/11.2/10.3/9.5	14.0/12.8/11.6/10.7/9.8	15.0/13.7/12.3/11.3/10.2	16.9/15.3/13.6/12.3/11.0
Sound Level	Cooling	dB(A)	26/25/24/23/22	28/27/26/25/24	30/29/28/27/26	31/30/29/28/26	33/32/31/30/28	34/33/32/30/28	36/35/33/31/29	36/35/33/31/29	36/35/33/31/29	37/35/33/31/29	40/38/36/34/32
	Heating	dB(A)	29/27/25/24/22	31/29/27/26/24	33/31/29/28/26	34/32/30/29/27	36/34/32/31/29	37/35/33/32/30	39/37/35/33/31	39/37/35/34/32	39/37/35/34/32	40/38/36/34/32	43/41/39/37/35
Piping Connections	Liquid	mm	Ø 6.4									Ø 9.5	
	Gas	mm	Ø 12.7									Ø 15.9	
	Drain		I.D.Ø20 × O.D.Ø26 (PVC26)										
Included lift pump head		mm	850										
Machine Weight		kg	17					18		23			
Max. Fuse Amps	MFA	A	16										
Min. Circuit Amps	MCA	A	0.3		0.4			0.5				0.7	
Panel Option	Model		BYEP45W1C							BYEP71W1C			
	Dimension	mm	80 × 950 × 550							80 × 1350 × 550			
	Weight	kg	8.0							10.0			

Ceiling Mounted Duct Type

Model			FXMP28 BA	FXMP36 BA	FXMP40 BA	FXMP45 BA	FXMP56 BB	FXMP63 BB	FXMP71 BB	FXMP90 BA	FXMP112 BA	FXMP140 BA	FXMP160 BA
Power Supply			1 - Phase 220V, 50Hz										
Rated Cooling Capacity		kW	2.8	3.6	4.0	4.5	5.6	6.3	7.1	9.0	11.2	14.0	16.0
Rated Heating Capacity		kW	3.2	4.0	4.5	5.0	6.3	7.1	8.0	10.0	12.5	16.0	18.0
Rated Power Consumption	Cooling	W	75	79	188		250	280		292	370	455	530
	Heating	W	69	73	182		244	274		286	364	449	524
Dimension (H x W x D)		mm	300 × 550 × 700		300 × 700 × 700		300 × 1000 × 700				300 × 1400 × 700		
Outlet Size (H x W)		mm	250 × 512		250 × 662		250 × 962				250 × 1362		
Inlet Size (H x W)		mm	264 × 514		264 × 664		264 × 964				264 × 1364		
Airflow Rate		m³/min	7.8/6.5/5.6	8.8/7.4/6.5	13.7/11/9.4		20.1/19.1/17.4	22.6/21.1/19.2		23.5/21.2/18.8	31.6/26.2/22.3	37/31.3/26.5	43/36.4/31
Sound Level		dB(A)	31/29/27	32/30/28	38/36/34		41/39/37				43/41/39		45/43/41
External Static Pressure		Pa	50		90		100	90					
External Static Pressure Range		Pa	100-30		160-30		200-50						
Piping Connections	Liquid	mm	Ø 6.4					Ø 9.5					
	Gas	mm	Ø 12.7					Ø 15.9					
	Drain		(IDØ25 × ODØ32)PVC32										
Included lift pump head		mm	1000										
Machine Weight		kg	23		26		34				43		
Max. Fuse Amps	MFA	A	16										
Min. Circuit Amps	MCA	A	0.6		1.4		1.6	1.8		2.3	2.9	3.4	3.6
PM2.5 Filter Options	Model (filter / replacement filter)		BAFP379A36 / BAFP254A36		BAFP379A45 / BAFP254A56		BAFP379A90 / BAFP254A80				BAFP379A160 / BAFP254A160		
	Process Airflow Rate	m³/min	≦8.8		≦13.7		≦23.5				≦43		
	Initial Pressure Drop (final pressure drop)	Pa	Below 30 (80)		Below 35 (80)		Below 37 (100)				Below 44 (100)		

* Choosing optional PM2.5 electrostatic filter for PM2.5 purification function

Ceiling Mounted Built-in Type

Model			FXSP22 CA	FXSP28 CA	FXSP36 CA	FXSP45 CA	FXSP56 CA	FXSP71 CA	FXSP80 CA	FXSP90 CA	FXSP100 CA	FXSP112 CA	FXSP125 CA	FXSP140 CA	FXSP150 CA	FXSP160 CA
Power Supply			1 - Phase 220V, 50Hz													
Rated Cooling Capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	10.0	11.2	12.5	14.0	15.0	16.0
Rated Heating Capacity		kW	2.5	3.2	4.0	5.0	6.3	8.0	9.0	10.0	11.2	12.5	14.0	16.0	17.0	18.0
Rated Power Consumption	Cooling	W	96			104	151			194		228		274	325	
	Heating	W	76			84	131			174		208		254	305	
Dimension (H x W x D)		mm	250 × 550 × 700			250×700×700	250 × 1000 × 700			250 × 1400 × 700						
Outlet Size (H x W)		mm	200 × 512			200 × 662	200 × 962			200 × 1362						
Inlet Size (H x W)		mm	214 × 514			214 × 664	214 × 964			214 × 1364						
Airflow Rate		m³/min	8.5/7.3/6.0			9.5/8.0/6.5	17.6/14.9/12.3			23.8/19.6/15.5		28.0/23.1/18.2		33.0/27.8/22.5	39.0/32.2/25.4	
External Static Pressure		Pa	80/50							100/50	80/50	100/50	80/50			
Sound Level		dB(A)	32/29/26				35/32/29					37/34/31		40/37/34	42/39/36	
Piping Connections	Liquid	mm	Ø 6.4					Ø 9.5								
	Gas	mm	Ø 12.7					Ø 15.9								
	Drain		(IDØ25 × ODØ32)PVC32													
Included lift pump head		mm	1000													
Machine Weight		kg	21			25	32			40		42				
Max. Fuse Amps	MFA	A	16													
Min. Circuit Amps	MCA	A	0.5				0.6	0.9		1.1		1.4		1.6	2.0	
PM2.5 Filter Options	Combinations		BAFP259A36			BAFP259A56	BAFP259A80			BAFP259A160						
	Filter Model for Replacement Use		BAFP254A36			BAFP254A56	BAFP254A80			BAFP254A160						
	Process Airflow Rate	m³/min	≦8.5			≦12.2	≦17.6			≦39						
	Initial Pressure Drop (final pressure drop)	Pa	Below 30 (80)							Below 37 (100)						

* Choosing optional PM2.5 electrostatic filter for PM2.5 purification function

Indoor Unit Lineup

Ceiling Mounted Duct (Large Capacity) Type

Model			FDXQA020AA
Power Supply			3 - Phase 380V, 50Hz
Rated Cooling Capacity		kW	50.0
Rated Heating Capacity		kW	56.0
Rated Power Consumption	Cooling	kW	6.1
	Heating	kW	6.4
Dimension (H x W x D)		mm	665 × 1980 × 850
Airflow Rate		m³/min	153.3
External Static Pressure		Pa	500
Sound Level		dB(A)	66
Piping Connections	Liquid	mm	Ø 15.9
	Gas	mm	Ø 28.6
	Drain		RP1 (Internal Thread)
Machine Weight		kg	258
Max. Fuse Amps	MFA	A	30
Min. Circuit Amps	MCA	A	10
Option	Temperature Sensor		BRY42A50

* When return inlets are installed outside of the air conditioned area, temperature sensor is recommended for accurate measurement of the actual temperature of the air conditioned area.

Ceiling Mounted Duct (3D Airflow with Sensing / 3D Airflow) Type

Ceiling Mounted Duct
(3D Airflow with Sensing) Type
FXDSP—ABP

Ceiling Mounted Duct
(3D Airflow) Type
FXDAP—ABP

Model			FXDSP 22ABP / FXDAP 22ABP	FXDSP 25ABP / FXDAP 25ABP	FXDSP 28ABP / FXDAP 28ABP	FXDSP 32ABP / FXDAP 32ABP	FXDSP 36ABP / FXDAP 36ABP	FXDSP 40ABP / FXDAP 40ABP	FXDSP 45ABP / FXDAP 45ABP	FXDSP 50ABP / FXDAP 50ABP	FXDSP 56ABP / FXDAP 56ABP	FXDSP 63ABP / FXDAP 63ABP	FXDSP 71ABP / FXDAP 71ABP
Power Supply			1 - Phase 220V, 50Hz										
Rated Cooling Capacity		kW	2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1
Rated Heating Capacity		kW	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1	8.0
Rated Power Consumption	Cooling	W	28		29	32		38	49			54	
	Heating	W	24		25	28		34	45			50	
Dimension (H x W x D)		mm	200 × 700 × 450							200 × 900 × 450		200 × 1100 × 450	
Panel Size (H x W x D)		mm	180 × 722 × 116*1 (60 in Suspended Ceiling)							180 × 922 × 116*1 (60 in Suspended Ceiling)		180 × 1122 × 116*1 (60 in Suspended Ceiling)	
			180 × 722 × 70*2 (60 in Suspended Ceiling)							180 × 922 × 70*2 (60 in Suspended Ceiling)		180 × 1122 × 70*2 (60 in Suspended Ceiling)	
Outlet Size (H x W)		mm	131 × 525							131 × 725		131 × 925	
Airflow Rate (High/medium-high/medium/medium-low/low)		m³/min	8.7/8.1/7.6/7.0/6.5		9.0/8.5/8.0/7.5/7.0	10.0/9.3/8.6/7.9/7.2		10.7/10.1/9.4/8.7/8.0	12.0/11.2/10.5/9.7/9.0	15.0/14.0/13.0/11.5/10.5		19.0/17.0/15.0/13.0/11.5	
Sound Level (High/medium-high/medium/medium-low/low)		dB(A)	31/29/27/26/24			34/32/30/29/27		36/35/33/31/29	39/37/35/33/31			39/37/35/33/30	
External Static Pressure (High / Standard)		Pa	10/0										
Piping Connections	Liquid	mm	Ø 6.4									Ø 9.5	
	Gas	mm	Ø 12.7									Ø 15.9	
	Drain		I.D.Ø20 × O.D.Ø26 (PVC26)										
Included lift pump head		mm	750										
Machine Weight		kg	17							20		23	
Max. Fuse Amps	MFA	A	16										
Min. Circuit Amps	MCA	A	0.38		0.4	0.48		0.5	0.6	0.63		0.66	

*1 Applicable to FXDSP~ABP model *2 Applicable to FXDAP~ABP model

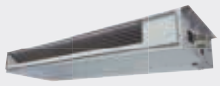
Slim Ceiling Mounted Duct (Compact) Type

Model			FXDP22 QPVC	FXDP25 QPVC	FXDP28 QPVC	FXDP32 QPVC	FXDP36 QPVC	FXDP40 QPVC	FXDP45 QPVC	FXDP50 QPVC	FXDP56 QPVC	FXDP63 QPVC	FXDP71 QPVC
Power Supply			1 - Phase 220V, 50Hz										
Rated Cooling Capacity		kW	2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1
Rated Heating Capacity		kW	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1	8.0
Rated Power Consumption	Cooling	W	72		75	78		81	93	180		196	
	Heating	W	56		59	62		65	76	152		168	
Dimension (H x W x D)		mm	200 × 700 × 450							200 × 900 × 450		200 × 1100 × 450	
Outlet Size (H x W)		mm	153 × 660							153 × 860		153 × 1060	
Airflow Rate (High/medium-high/medium/medium-low/low)		m³/min	8.7/8.1/7.6/7.0/6.5		9.0/8.5/8.0/7.5/7.0	9.2/8.7/8.2/7.7/7.2		10.0/9.5/9.0/8.5/8.0	11.5/11.0/10.0/9.5/9.0	15.0/14.0/13.0/11.5/10.5		19.0/17.0/15.0/13.0/11.5	
External Static Pressure		Pa	30/10							50/20			
Sound Level (High/medium-high/medium/medium-low/low)		dB(A)	27/26/25/24/23		28/27/26/25/24	29/28/27/26/25		30/29/28/27/26	33/32/31/30/29			34/33/32/31/30	
Piping Connections	Liquid	mm	Ø 6.4									Ø 9.5	
	Gas	mm	Ø 12.7									Ø 15.9	
	Drain		I.D.Ø20 × O.D.Ø26 (PVC26)										
Included lift pump head		mm	750										
Machine Weight		kg	17							20		23	
Max. Fuse Amps	MFA	A	15										
Min. Circuit Amps	MCA	A	0.7							1.1		1.2	

Works with Type C wired remote controller (BRC1C611) to support 3-speed airflow adjustment.

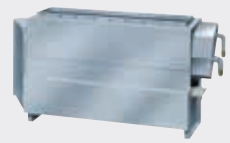
Indoor Unit Lineup

Slim Ceiling Mounted Duct Type



Model			FXDP80QPVC	FXDP90QPVC	FXDP100QPVC	FXDP112QPVC
Power Supply			1 - Phase 220V, 50Hz			
Rated Cooling Capacity		kW	8.0	9.0	10.0	11.2
Rated Heating Capacity		kW	9.0	10.0	11.2	12.5
Rated Power Consumption	Cooling	W	140		188	
	Heating	W	120		168	
Dimension (H x W x D)		mm	200 × 1610 × 560			
Outlet Size (H x W)		mm	153 × 1570			
Airflow Rate		m³/min	24/20/16		26/22/18	
External Static Pressure		Pa	40/20			
Sound Level		dB(A)	36/34/32		37/35/33	
Piping Connections	Liquid	mm	Ø 9.5			
	Gas	mm	Ø 15.9			
	Drain		I.D.Ø20 × O.D.Ø26 (PVC26)			
Included lift pump head		mm	800			
Machine Weight		kg	37		40	
Max. Fuse Amps	MFA	A	16			
Min. Circuit Amps	MCA	A	0.7		1.0	

Concealed Floor Standing Type



Model			FXNP22MNVC	FXNP28MNVC	FXNP36MNVC	FXNP45MNVC	FXNP56MNVC	FXNP71MNVC
Power Supply			1 - Phase 220V, 50Hz					
Rated Cooling Capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1
Rated Heating Capacity		kW	2.5	3.2	4.0	5.0	6.3	8.0
Rated Power Consumption	Cooling	W	49		90		110	
	Heating	W	49		90		110	
Dimension (H x W x D)		mm	610 × 930 × 220		610 × 1070 × 220		610 × 1350 × 220	
Outlet Size (H x W)		mm	130 × 562		130 × 702		130 × 982	
Airflow Rate		m³/min	6.8/5.8		8.0/6.0	10.1/8.0	14.0/11.0	15.3/11.3
Sound Level		dB(A)	36/33		36/32	38/33	40/36	41/37
Piping Connections	Liquid	mm	Ø 6.4					Ø 9.5
	Gas	mm	Ø12.7					Ø 15.9
	Drain		O.D.Ø21 (PVC21)					
Machine Weight		kg	21		25		31	
Max. Fuse Amps	MFA	A	16					
Min. Circuit Amps	MCA	A	0.3		0.6			

Floor Standing Type

Model			FXNP22MLVC	FXNP28MLVC	FXNP36MLVC	FXNP45MLVC	FXNP56MLVC	FXNP71MLVC
Power Supply			1 - Phase 220V, 50Hz					
Rated Cooling Capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1
Rated Heating Capacity		kW	2.5	3.2	4.0	5.0	6.3	8.0
Rated Power Consumption	Cooling	W	49		90		110	
	Heating	W	49		90		110	
Dimension (H x W x D)		mm	660 × 1000 × 222		600 × 1140 × 222		600 × 1420 × 222	
Airflow Rate		m³/min	6.8/5.8		8.0/6.0	10.1/8.0	14.0/11.0	15.3/11.3
Sound Level		dB(A)	36/33		36/32	38/33	40/36	41/37
Piping Connections	Liquid	mm	Ø 6.4					Ø 9.5
	Gas	mm	Ø 12.7					Ø 15.9
	Drain		O.D.Ø21 (PVC21)					
Machine Weight		kg	25		30		36	
Max. Fuse Amps	MFA	A	16					
Min. Circuit Amps	MCA	A	0.3		0.6			

Wall Mounted Type

Model			FXAP22NVC	FXAP28NVC	FXAP36NVC
Power Supply			1 - Phase 220V, 50Hz		
Rated Cooling Capacity		kW	2.2	2.8	3.6
Rated Heating Capacity		kW	2.5	3.2	4.0
Rated Power Consumption	Cooling	W	19	28	30
	Heating	W	29	34	35
Dimension (H x W x D)		mm	290 × 795 × 238		
Airflow Rate		m³/min	7.5/4.5	8/5	8.5/5.5
Sound Level		dB(A)	35/31	36/31	38/31
Piping Connections	Liquid	mm	Ø 6.4		
	Gas	mm	Ø 12.7		
	Drain		I.D.Ø13 × O.D.Ø18 (PVC18)		
Machine Weight		kg	11		
Max. Fuse Amps	MFA	A	15		
Min. Circuit Amps	MCA	A	0.3	0.4	

Indoor Unit Lineup

Outdoor Unit

Piping Joint

Number	Name of Option		RUXYQ8BA RUXYQ10BA	RUXYQ12BA RUXYQ14BA RUXYQ16BA RUXYQ18BA RUXYQ20BA RUXYQ22BA	RUXYQ24BA RUXYQ26BA RUXYQ28BA RUXYQ30BA RUXYQ32BA RUXYQ34BA	RUXYQ36BA RUXYQ38BA RUXYQ40BA RUXYQ42BA RUXYQ44BA	RUXYQ46BA RUXYQ48BA RUXYQ50BA RUXYQ52BA RUXYQ54BA RUXYQ56BA	RUXYQ58BA RUXYQ60BA RUXYQ62BA RUXYQ64BA RUXYQ66BA
1	Distributive Piping	REFNET joint	KHRP26NC22T KHRP26NC33T	KHRP26NC22T KHRP26NC33T KHRP26NC72T	KHRP26NC22T KHRP26NC33T	KHRP26NC72T KHRP26NC73T	KHRP26NC22T KHRP26NC33T	KHRP26NC72T KHRP26NC73T KHRP26NC74T*
		Pipe Size Reducer	-		KHRP26MC73P			
2	Outdoor unit multi connection piping kit		-		BHFP22MC90		BHFP22MC135	

* When the diameter of the main gas pipe from outdoor unit to the first REFNET joint is 44.5, use the captioned model. For details please contact Daikin professional engineers.

Indoor Unit

Air Outlet

Number	Name of Option		Model	Function
1	Air Outlet		K-HV8AWC (Optional:FXDP22~45)	• Air outlet dimensions match Daikin indoor unit designs, guarantee effective airflows • Outlets are not easy to frost by using ABS thermal material • Better air distribution • Black and white panels harmonized with your interior design • Adjustable horizontal louvres • Compliant with the RoHS directive
2			K-HV10AWC (Optional:FXDP50~56)	
3			K-HV13AWC (Optional:FXDP63~71)	

New Indoor and Outdoor Units

The capacity of outdoor units in increments of 2 HP, up to 66HP

- Simplified design process and enhanced system flexibility of outdoor unit's single module with only 2 shapes and sizes.
- The capacity of outdoor units in 2 HP increments can meet the needs of customers precisely.

Model	RUXYQ8BA	RUXYQ10BA	RUXYQ12BA	RUXYQ14BA	RUXYQ16BA	RUXYQ18BA	RUXYQ20BA	RUXYQ22BA

Model	RUXYQ24BA	RUXYQ26BA	RUXYQ28BA	RUXYQ30BA	RUXYQ32BA	RUXYQ34BA	RUXYQ36BA	RUXYQ38BA	RUXYQ40BA	RUXYQ42BA	RUXYQ44BA
Combination	RUXYQ10BA	RUXYQ12BA	RUXYQ8BA	RUXYQ8BA	RUXYQ10BA	RUXYQ12BA	RUXYQ14BA	RUXYQ18BA	RUXYQ18BA	RUXYQ20BA	RUXYQ22BA
	RUXYQ14BA	RUXYQ14BA	RUXYQ20BA	RUXYQ22BA	RUXYQ22BA	RUXYQ22BA	RUXYQ22BA	RUXYQ20BA	RUXYQ22BA	RUXYQ22BA	RUXYQ22BA

Model	RUXYQ46BA	RUXYQ48BA	RUXYQ50BA	RUXYQ52BA	RUXYQ54BA	RUXYQ56BA	RUXYQ58BA	RUXYQ60BA	RUXYQ62BA	RUXYQ64BA	RUXYQ66BA
Combination	RUXYQ10BA	RUXYQ12BA	RUXYQ8BA	RUXYQ10BA	RUXYQ10BA	RUXYQ12BA	RUXYQ14BA	RUXYQ20BA	RUXYQ18BA	RUXYQ20BA	RUXYQ22BA
	RUXYQ14BA	RUXYQ14BA	RUXYQ20BA	RUXYQ20BA	RUXYQ22BA	RUXYQ22BA	RUXYQ22BA	RUXYQ20BA	RUXYQ22BA	RUXYQ22BA	RUXYQ22BA
	RUXYQ22BA	RUXYQ22BA	RUXYQ22BA	RUXYQ22BA	RUXYQ22BA	RUXYQ22BA	RUXYQ22BA	RUXYQ20BA	RUXYQ22BA	RUXYQ22BA	RUXYQ22BA

Note: Daikin 8HP outdoor unit obtained the ((certification (((certification covers air conditioning units with a cooling capacity ≤24.4KW)

Outdoor Unit

VRV X7


VRV X7

Outdoor Unit Specifications

Outdoor Unit

Outdoor Unit									
Model			**RUXYQ8BA**	**RUXYQ10BA**	**RUXYQ12BA**	**RUXYQ14BA**	**RUXYQ16BA**	**RUXYQ18BA**	**RUXYQ20BA**
Horse Power		**HP**	8	10	12	14	16	18	20
Combination			—	—	—	—	—	—	—
Power Supply									
***1 Cooling Capacity**		**kW**	22.4	28.0	33.5	40.0	45.0	50.4	56.5
***2 Heating Capacity**		**kW**	25.0	31.5	37.5	45.0	50.0	56.5	63.0
Power Consumption	**Cooling**	**kW**	4.78	6.85	8.10	10.25	12.10	13.50	15.80
	Heating	**kW**	5.27	6.90	8.59	10.70	12.20	13.60	15.90
Airflow Rate		**m^3/min**	162	175	185	223	280	271	271
Dimension (H x W x D)		**mm**	1657 × 930 × 765			1657 × 1240 × 765			
***3Sound Level**	**Front Sound Level**	**dB(A)**	53	54	56		57	58	59
	Surrounded Sound Level	**dB(A)**	56	57	59		60	61	62
Night Quiet Mode		**dB(A)**	40						
Piping Connections	**Liquid**	**mm**	Ø 9.5		Ø 12.7			Ø 15.9	
	Gas	**mm**	Ø 19.1	Ø 22.2	Ø 25.4		Ø 28.6		
Weight		**kg**	189	196		250	291	300	
Refrigerant	**Type**								
	Charge	**kg**	8.4	8.6	8.7	11.1		15.6	
Operation Range	**Cooling**	**°CDB**							
	Heating	**°CWB**							
***4 Max. Fuse Amps**	**MCA**	**A**	16.1	18.0	20.1	24.4	26.0	34.8	39.6
***4 Min Circuit Amps**	**MFA**	**A**	20		25	32		40	

Outdoor Unit								
Model			**RUXYQ40BA**	**RUXYQ42BA**	**RUXYQ44BA**	**RUXYQ46BA**	**RUXYQ48BA**	**RUXYQ50BA**
Horse Power		**HP**	40	42	44	46	48	50
Combination			RUXYQ18BA RUXYQ22BA	RUXYQ20BA RUXYQ22BA	RUXYQ22BA RUXYQ22BA	RUXYQ10BA RUXYQ14BA RUXYQ22BA	RUXYQ12BA RUXYQ14BA RUXYQ22BA	RUXYQ8BA RUXYQ20BA RUXYQ22BA
Power Supply								
***1 Cooling Capacity**		**kW**	111.9	118.0	123.0	129.5	135.0	140.4
***2 Heating Capacity**		**kW**	125.5	132.0	138.0	145.5	151.5	157.0
Power Consumption	**Cooling**	**kW**	31.80	34.10	36.60	35.40	36.65	38.88
	Heating	**kW**	32.00	34.30	36.80	36.00	37.69	39.57
Airflow Rate		**m^3/min**	271+271	271+271	271+271	175+223+271	185+223+271	162+271+271
Dimension (H x W x D)		**mm**	1657 × 1240 × 765+1657 × 1240 × 765					
***3Sound Level**	**Front Sound Level**	**dB(A)**	62	63		62	63	
	Surrounded Sound Level	**dB(A)**	65	66		65	66	
Night Quiet Mode		**dB(A)**	43					
Piping Connections	**Liquid**	**mm**						
	Gas	**mm**	Ø 38.1					
Weight		**kg**	600			746		789
Refrigerant	**Type**							
	Charge	**kg**	15.6+15.6			8.6+11.1+15.6	8.7+11.1+15.6	8.4+15.6+15.6
Operation Range	**Cooling**	**°CDB**						
	Heating	**°CWB**						
***4 Max. Fuse Amps**	**MCA**	**A**	78.4	83.2	87.2	85.7	87.6	89.7
***4 Min Circuit Amps**	**MFA**	**A**	100					

*1 Indoor Temperature of 27°CDB, 19°CWB; Outdoor Temperature of 35°CDB

*2 Indoor Temperature of 20°CDB; Outdoor Temperature of 7°CDB, 6°CWB.

*3 Sound Level: The operation sound levels are conversion values in anechoic chamber. In practice, sound levels tend to be higher than the specified values due to ambient noise or reflection. Front sound level measured at a point 1m in front of the unit. Surrounded sound level measured at 4 points (front, rear, left and right) of 1m in front of the unit.

*4 MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). MCA is used to select wire size.


	RUXYQ22BA	RUXYQ24BA	RUXYQ26BA	RUXYQ28BA	RUXYQ30BA	RUXYQ32BA	RUXYQ34BA	RUXYQ36BA	RUXYQ38BA
	22	24	26	28	30	32	34	36	38
	—	RUXYQ10BA RUXYQ14BA	RUXYQ12BA RUXYQ14BA	RUXYQ8BA RUXYQ20BA	RUXYQ8BA RUXYQ22BA	RUXYQ10BA RUXYQ22BA	RUXYQ12BA RUXYQ22BA	RUXYQ14BA RUXYQ22BA	RUXYQ18BA RUXYQ20BA
	3 - Phase 50Hz 380V								
	61.5	68.0	73.5	78.9	83.9	89.5	95.0	101.5	106.9
	69.0	76.5	82.5	88.0	94.0	100.5	106.5	114.0	119.5
	18.30	17.10	18.35	20.58	23.08	25.15	26.40	28.55	29.30
	18.40	17.60	19.29	21.17	23.67	25.30	26.99	29.10	29.5
	271	175+223	185+223	162+271	162+271	175+271	185+271	223+271	271+271
		1657 × 930 × 765+1657 × 1240 × 765						1657 × 1240 × 765+1657 × 1240 × 765	
	60	58	59	60	61		62		
	63	61	62	63	64		65		
		43							
		Ø 19.1							
		Ø 31.8						Ø 38.1	
		446		489		496		550	600
		R410A							
		8.6+11.1	8.7+11.1	8.4+15.6		8.6+15.6	8.7+15.6	11.1+15.6	15.6+15.6
	-5~50°CDB								
	-23~15.5°CWB								
	43.6	40.2	44.0	46.1	59.7	61.6	63.7	68.0	69.6
		50		63	80				


	RUXYQ52BA	RUXYQ54BA	RUXYQ56BA	RUXYQ58BA	RUXYQ60BA	RUXYQ62BA	RUXYQ64BA	RUXYQ66BA
	52	54	56	58	60	62	64	66
	RUXYQ10BA RUXYQ20BA RUXYQ22BA	RUXYQ10BA RUXYQ22BA RUXYQ22BA	RUXYQ12BA RUXYQ22BA RUXYQ22BA	RUXYQ14BA RUXYQ22BA RUXYQ22BA	RUXYQ20BA RUXYQ20BA RUXYQ20BA	RUXYQ18BA RUXYQ22BA RUXYQ22BA	RUXYQ20BA RUXYQ22BA RUXYQ22BA	RUXYQ22BA RUXYQ22BA RUXYQ22BA
	3 - Phase 50Hz 380V							
	146.0	151.0	156.5	163.0	169.5	173.4	179.5	184.5
	163.5	169.5	175.5	183.0	189.0	194.5	201.0	207.0
	40.95	43.45	44.70	46.85	47.40	50.10	52.40	54.90
	41.20	43.70	45.39	47.50	47.70	50.40	52.70	55.20
	175+271+271	175+271+271	185+271+271	223+271+271	271+271+271	271+271+271	271+271+271	271+271+271
	1657 × 930 × 765+1657 × 1240 × 765+1657 × 1240 × 765			1657 × 1240 × 765+1657 × 1240 × 765+1657 × 1240 × 765				
		64					65	66
		67					68	69
		45						
		Ø 19.1						
		Ø 41.3						
	796			850	900			
		R410A						
	8.6+15.6+15.6		8.7+15.6+15.6	11.1+15.6+15.6	15.6+15.6+15.6			
		-5~50°CDB						
		-23~15.5°CWB						
	101.2	105.2	107.3	111.6	113.2	122.0	126.8	130.8
	125					140		160

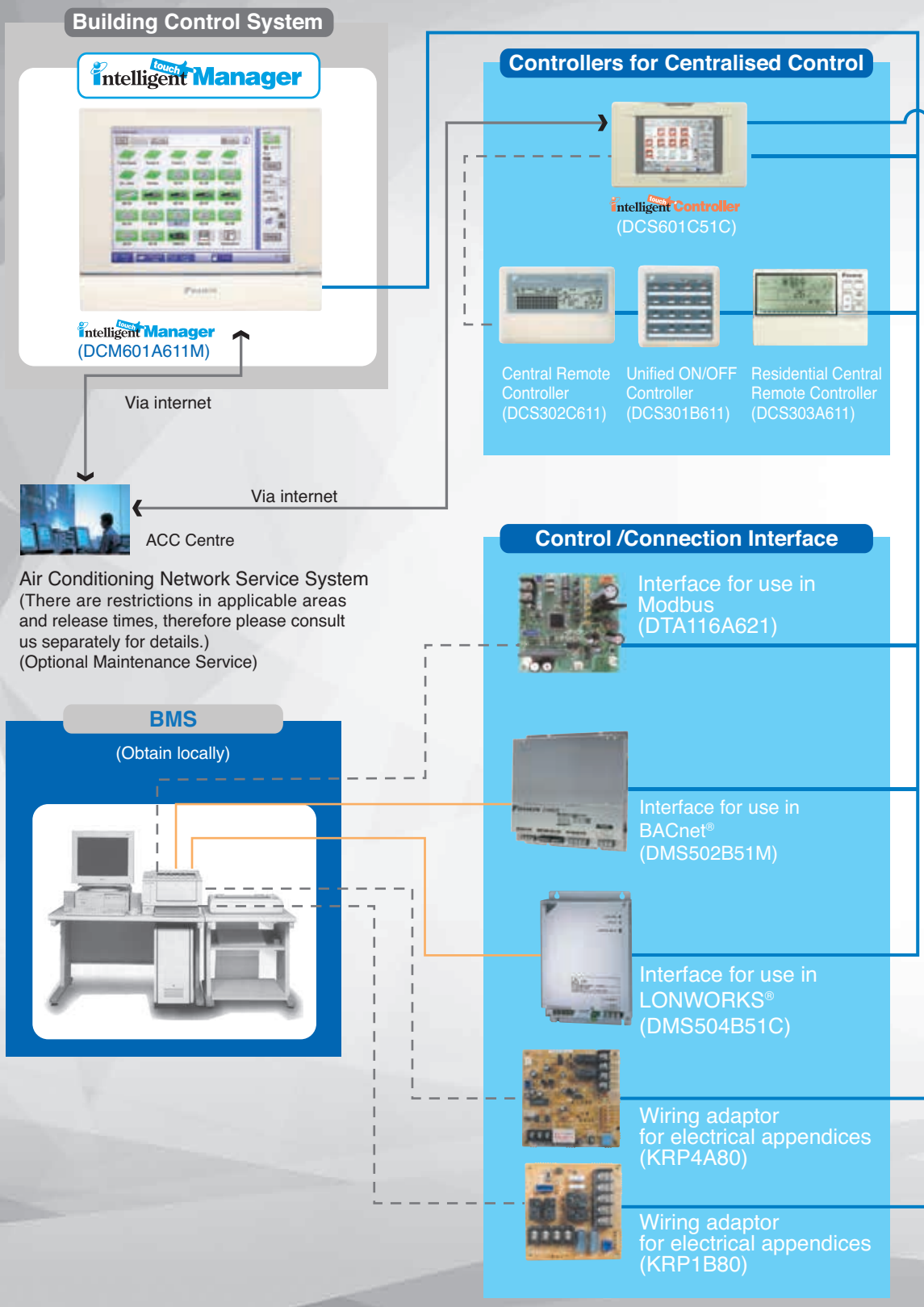
Remarks

1. System Connection Ratio: 50%~130%
2. When the system is connecting to Ceiling Mounted Duct (Large Capacity) Type and Fresh Air Processing Unit at the same time, the total capacity of indoor units should be smaller or equal to 115% of the total capacity of outdoor unit.

Control Systems

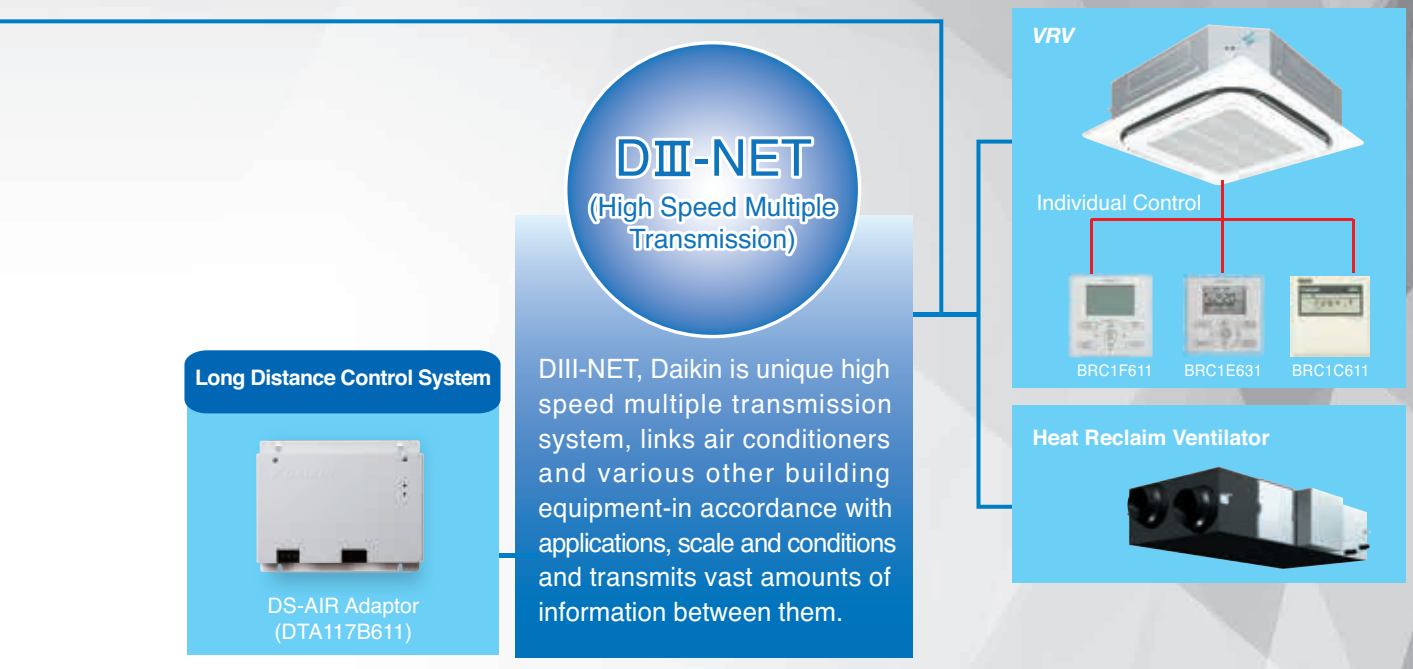
Integrated Building Monitoring System

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



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 setups readily up and running. An extendable cabling up to 2 km in total.
- Different control equipment flexibly joined in the system for hierarchical risk diversification.
- Daikin's total heat exchangers and other devices under integral control.



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.

DIII-NET Line

BACnet®/Ethernet or LONWORKS® Network Communication Line

Contact Signal Line

Individual Control Line

Control Systems

Individual Control Systems for VRV Indoor Units
Wired Remote Controller

Type F wired remote controller
Backlit display

Full Functions, Large backlight display and user-friendly design

White
BRC1F611

Silver
BRC1F611S

Gold
BRC1F611N

- Basic function control
- Backlight display
- 3D airflow control
- Individual blind direction setting
- Intelligent sensor setting
- Automatic temperature recovery
- Maximum and minimum temperature setting
- Automatic OFF time setting
- Clock (time display)
- Language setting (Chinese/ English)
- Child lock
- Timer setting (max. 96 hours)
- Weekly schedule setting
- Detailed indoor and outdoor temperature display according to the model
- Interlock with HRV
- Supports airflow rate control when connected to HRV
- Available in three colors

*Remote display language setting is available for Simplified Chinese/ English. Language on buttons is Simplified Chinese only.

Type E wired remote controller

Easy control, colorful crystal panel and flexible selection

White
BRC1E631

Silver
BRC1E631S

Pink
BRC1E631P

Red
BRC1E631R

Gold
BRC1E631N

- Basic function control
- 3D airflow control
- Intelligent sensor setting*
- Maximum and minimum temperature setting*
- Child lock
- Timer setting (max. 12 hours)
- Interlock with HRV
- Supports airflow rate control when connected to HRV
- Available in five colors

*This function has to be set on-site. For details, please consult professional Daikin engineers.
*Type E wired remote controller language is Simplified Chinese only.

Type C wired remote controller

Classic design, convenient control and easy setting

BRC1C611

- Basic function control
- Timer setting (max. 72 hours)
- Interlock with HRV
- Supports airflow rate control when connected to HRV

Notes:

1. Basic function control includes the ON/OFF function, operating mode setting, airflow rate control, address setting, centralized control setting and test run setting.
2. Intelligent sensor setting supports different modes, such as avoiding direct airflow, direct airflow and energy-saving mode when the space is unoccupied.
3. Wind direction control and intelligent sensor setting are available on selected indoor units only.

Control Systems

Wireless Remote Controllers

BRC7F634F1 (White panel)
BRC7F634K1 (Black panel)

Applicable model: Ceiling mounted cassette (round flow) type

- Basic function control
- Three wind speed levels
- Wind direction control (up and down)
- Timer setting (max. 72 hours)
- Filter cleaning alert

BRC4C651

Applicable models:
ceiling mounted duct (large capacity) type
Ceiling mounted built-in type
Ceiling mounted duct type

- Basic function control
- Three wind speed levels
- Timer setting (max. 72 hours)
- Filter cleaning alert

BRC4L631 (Backlight)

Applicable model:
Slim ceiling mounted duct (compact) type

- Basic function control
- Five wind speed levels
- Display contrast and lightness adjustment
- Timer setting (max. 72 hours)
- Filter cleaning alert

BRC7L611 (Backlight)

Applicable model:
Ceiling mounted cassette (round flow with sensing) type

- Basic function control
- Five wind speed levels
- Wind direction control (up and down)
- Individual blind direction setting
- Display contrast and lightness adjustment
- Timer setting (max. 72 hours)
- Intelligent sensor setting
- Filter cleaning alert

BRC4L611 (Backlight)

Applicable model:
Ceiling mounted duct (3D airflow with sensing) type

- Basic function control
- Five wind speed levels
- Wind direction control (up, down, left, right)
- Wind direction change (up, down, left, right)
- Display contrast and lightness adjustment
- Timer setting (max. 72 hours)
- Intelligent sensor setting
- Filter cleaning alert

BRC4L621 (Backlight)

Applicable model:
Ceiling mounted duct (3D airflow) type

- Basic function control
- Five wind speed levels
- Wind direction control (up, down, left, right)
- Wind direction change (up, down, left, right)
- Display contrast and lightness adjustment
- Timer setting (max. 72 hours)
- Filter cleaning alert

BRC7L661 (Backlight)

Applicable model:
Ceiling mounted cassette corner type

- Basic function control
- Five wind speed levels
- Wind direction control (up, down, left, right)
- Wind direction change (Up, down, left, right)
- Display contrast and lightness adjustment
- Timer setting (max. 72 hours)
- Filter cleaning alert

BRC4C623

Applicable models:
Concealed floor standing type
Floor standing type

- Basic function control
- Two wind speed levels
- Timer setting (max. 72 hours)
- Filter cleaning alert

BRC7E718W

Applicable model:
Wall mounted typ

- Basic function control
- Three wind speed levels
- Wind direction control (up, down)
- Timer setting (max. 72 hours)
- Filter cleaning alert

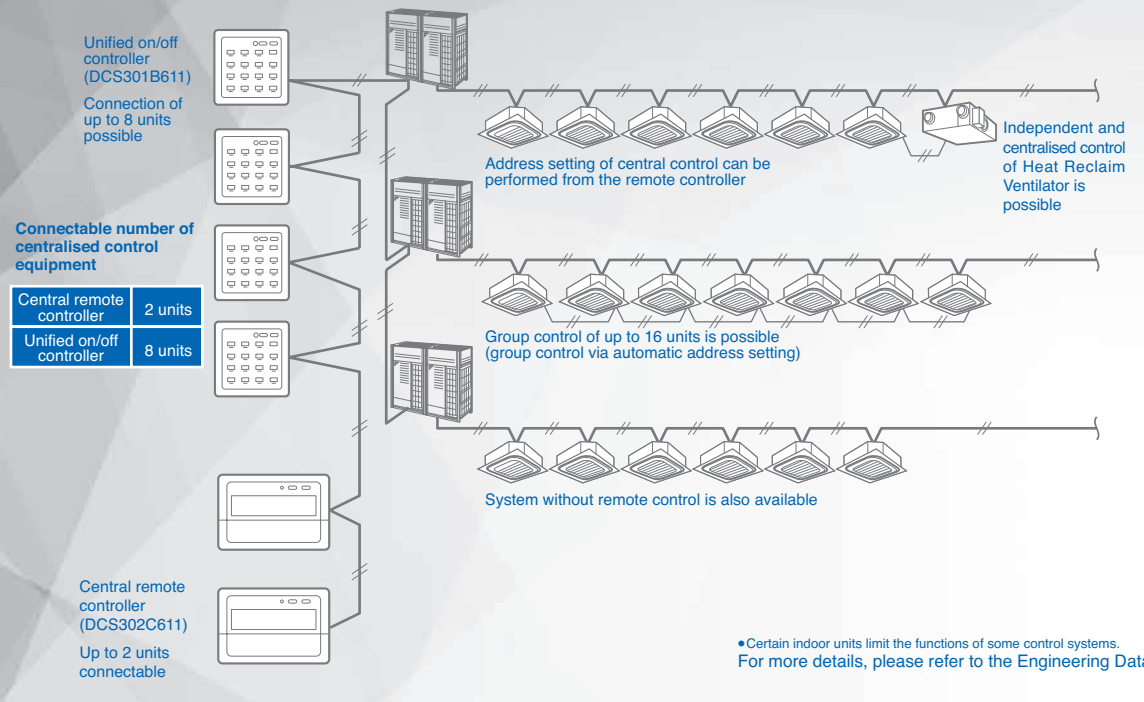
Notes:

1. Basic function control includes the ON/OFF function, operating mode setting, airflow rate control, address setting, centralized control setting and test run setting.
2. Intelligent sensor setting supports different modes, such as avoiding direct airflow, direct airflow and energy-saving mode when the space is unoccupied.
3. Wind direction control and intelligent sensor setting are available on selected indoor units only.

Control Systems

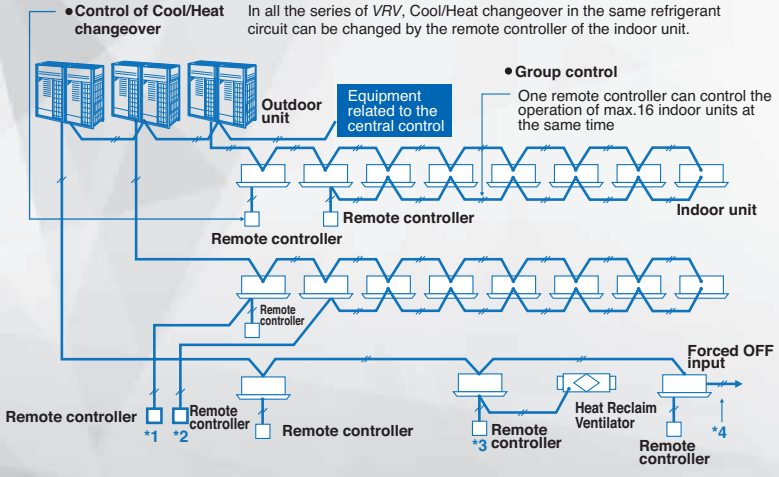
Centralised Control Systems for VRV Indoor Units

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



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

The Wired Remote Controller supports a wide range of control functions



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

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

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

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

Advanced Control System for VRV Indoor Units

DS-AIR Long Distance Control System

The system can link up to 64 indoor units for convenient remote control

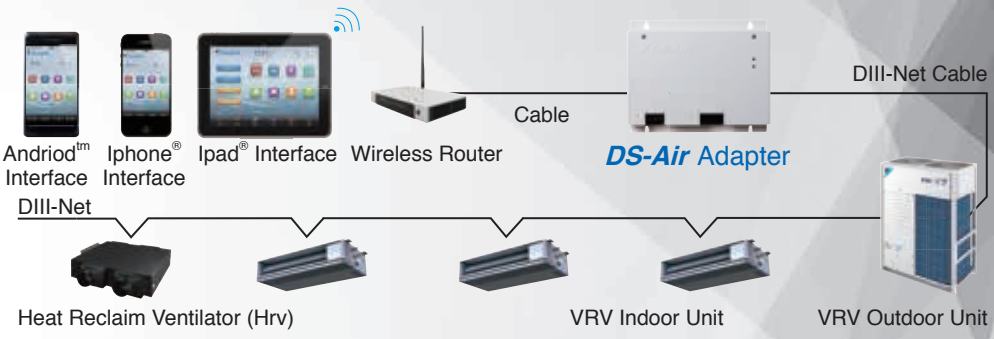
DS-AIR Adaptor

DTA117B611

- Link up to 64 indoor units and 10 outdoor units
- Remote control by up to 4 nos. smart mobile devices
- Full-function mode settings
- Link up to 16 HRVs with ON/OFF function
- One-touch scenario setting
- Timer
- Malfunction alarm (air conditioner only)
- Dedicated application can be downloaded using iPhone/Android smartphones to set IP address easily

Notes:

1. "iPad" and "iPhone" are registered trademarks of Apple Inc. The use of such trademarks has been authorized by Apple Inc.
2. AndriodTM is a trademark of Google Inc.



Unified ON/OFF Controller (Option)

DCS301B611

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

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

Central Remote Controller (Option)

DCS302C611

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

- Max. 64 groups (128 indoor units) controllable
- Max. 128 groups (128 indoor units) are controllable by using 2 central remote controllers,which can control from 2 different places
- Zone control
- Malfunction code display
- Max. wiring length 1,000 m (Total: 2,000 m)
- Connectable with Unified ON/OFF Controller 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

Residential Central Remote Controller (Option)*

DCS303A611

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

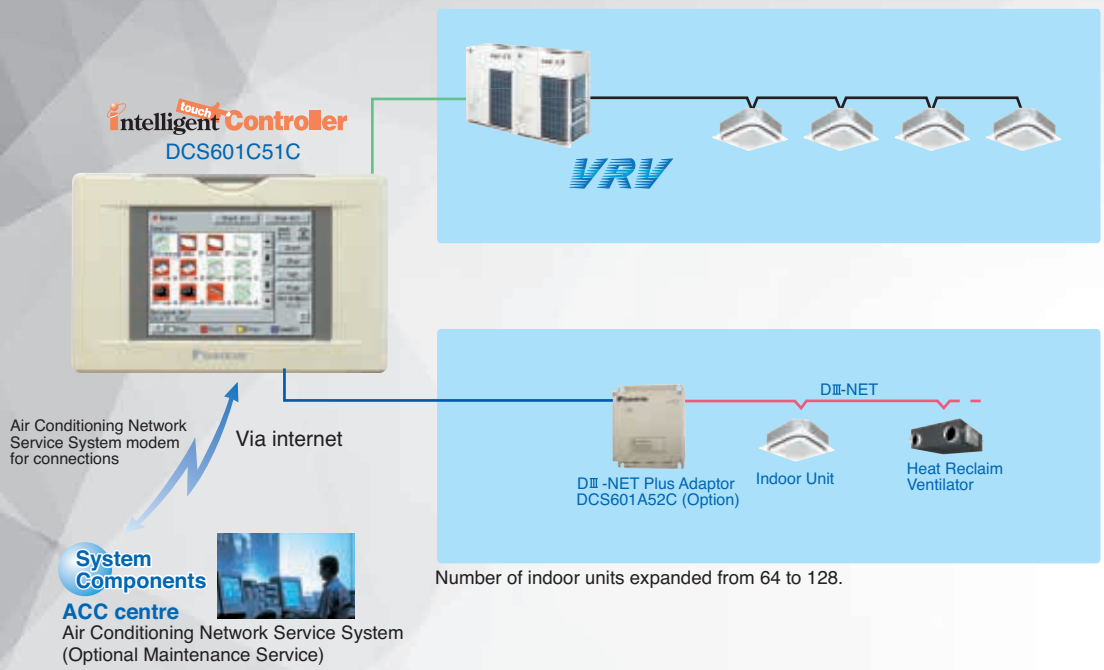
- Max. 16 groups (128 indoor units) controllable
- Backlight and large LCD panel for easy readability
- ON/OFF, temperature settings and scheduling can be controlled individually for indoor units
- All indoor units can be turned ON or OFF at once with "ALL" button
- Each group has a dedicated button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

* Cannot be used with other centralised control equipment

Advanced Control System for VRV Indoor Units

intelligent touch Controller

Communication functions in the user-friendly icon-based multilingual controller simplify centralised control of the VRV system.



Number of indoor units expanded from 64 to 128.

Features

- Colour LCD touch panel icon display
- Small manageable size
- Simplified engineering
- Yearly schedule
- Auto heat/cool change-over
- Temperature limitation
- Enhanced history function
- Simple Interlock Function
- Multi language (English, French, Italian, German, Spanish and Chinese)
- Built-in modem for connecting to Air Conditioning Network Service System (Option)
- Doubling of number of connectable indoor units by adding a DIII-NET Plus Adaptor (Option)

Advanced Control System for VRV Indoor Units

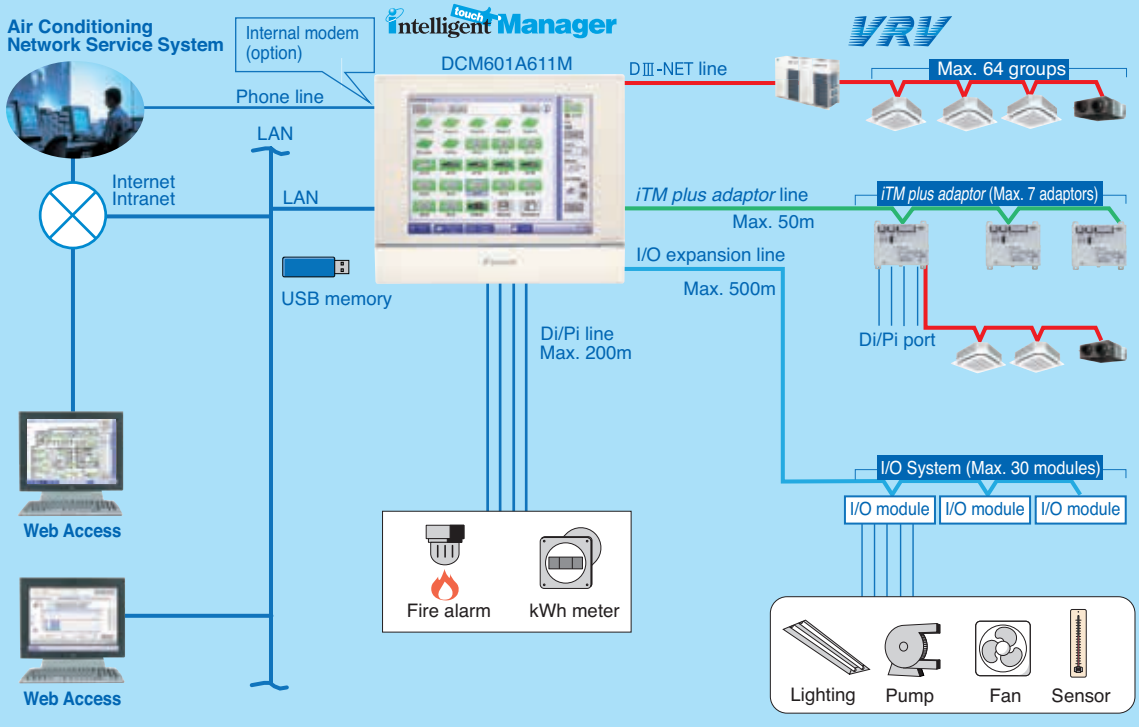
intelligent touch Manager

One touch selection to total air comfort

Daikin proudly introduces its intelligent Touch Manager, a VRV system controller featuring an array of simple, useful system management functions for added value.

Up to 512 groups can be controlled by one system

system overview



Features

Central control

- Handy area settings simplify detailed management of VRV system.
- Display of floor plans enables a quick search of desired air conditioning units.
- Operation history shows manner of control and origin in past operations of air conditioning units.

Remote access

- Remote access with a PC allows total air conditioning management using the same type of screens as those displayed in the intelligent Touch Manager.
- Authorised users can centrally control individual air conditioning units from their own computers.

Automatic control

- VRV systems are controlled automatically throughout the year by the schedule function.
- Interlocking VRV system and other equipment enables easy automation of building facilities operation.
- Setback adjusts temperature settings even when rooms are unoccupied.

Energy management

- The Energy Navigator feature simplifies energy management by tracking energy consumption data and identifying inefficient operation.

Troubleshooting

- Contact information of maintenance contractors can be registered and displayed.
- E-mails are sent automatically to alert of malfunctions and potential trouble.
- The intelligent Touch Manager can link to the Air Conditioning Network Service System for 24-hour monitoring of operating conditions and status.

Scalability

- A single intelligent Touch Manager can manage a small building or be expanded to handle medium- to large-sized buildings.

Advanced Control System for VRV Indoor Units

Advanced Control Systems intelligent Manager III

Advanced control system that recognises the trend of powerful control systems. Connectable up to a maximum of 1024 indoor units group on one i-Manager.

DAM602B51M

Centralised Management Function

- Floor visual navigation
- Individual or centralized control system (ON/OFF, temperature setting and mode change)
- Operation mode monitoring
- Schedule timer (week/month/year)
- Power proportional distribution
- User login
- Temperature limitation
- Auto heat / cool changeover
- Malfunction alarm
- Operation history display
- Interlock control (fire alarm, door lock and malfunction)
- Management of facilities/equipment other than A/C units (By adding Dio unit)
- Compatibility with BACnet
- Compatibility with latest Vista system

Econo Mode (Energy Saving Mode) (Option)

- Indoor units alternative stop control
- Outdoor units capacity control

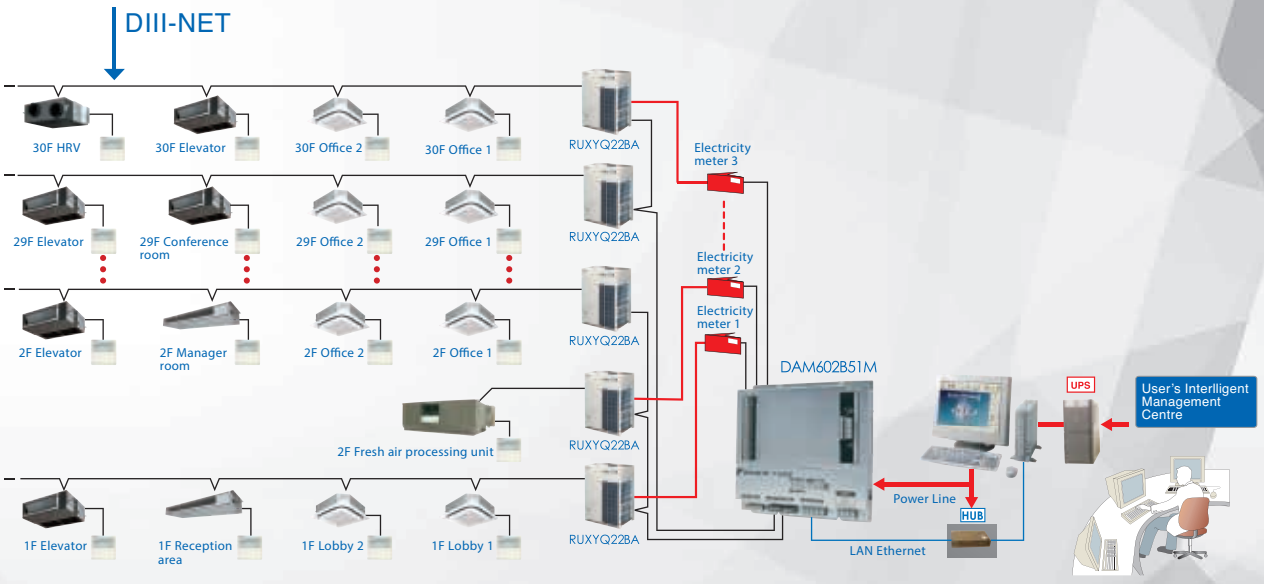
Model = DAM003A51M

Web Access Function (Option)

i-Manager system allows easy management of systems in remote facilities via the Internet using a web browser

- Centralised control air conditioning system for the multiple buildings from one location
- Centralised control air conditioning system for a building in remote location
- Tenants can centralized control and monitor air conditioning system

Model = DAM004A51M



Advanced Control System for VRV Indoor Units

Advanced Control Systems - Compatibility with BMS and Facilitating the Control System

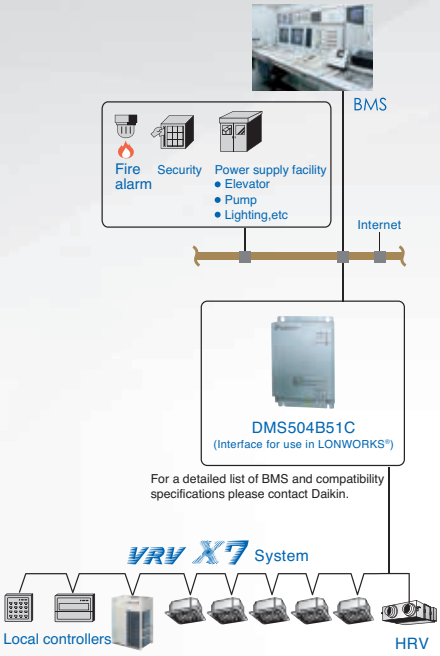
DMS504B51C

Interface for use in LONWORKS®

- Maximum connectable up to 10 outdoor units and 64 indoor units group
- One LONWORKS® unit can be expanded the number of control points, up to 300 control points. One function equivalents to one control point
- Control and monitor A/C units ON/OFF and operation mode status
- Monitor indoor unit malfunction (code display)
- Control and monitor temperature setting for indoor unit
- Monitor and replace filter in use (cleaning signal)
- Control and monitor operation mode
- Remote controller setting (ON/OFF, operation mode and temperature)
- Control and monitor airflow direction and rate
- Schedule timer
- Interlock control (fire alarm, door lock and malfunction, etc)
- Forced OFF setting, etc

Note 1: For example, one user controls and monitors air conditioning system ON/OFF setting, operation mode setting, temperature setting and mode change, total of 5 functions, i.e. 300/5=60, LONWORKS® maximum connect up to 60 indoor units group.

Note 2: System controlled via PC software. Software to be supplied by third party



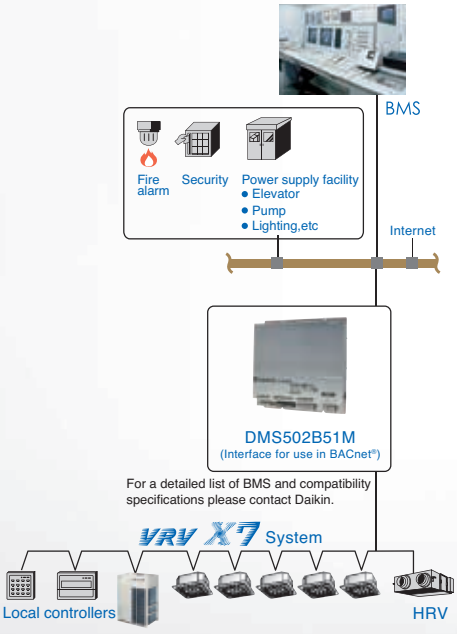
DMS502B51M

Interface for use in BACnet®

- Maximum connectable up to 20 outdoor units and 128 indoor units group
- By adding BACnet® expansion kit (DAM411B51M), BACnet® connectable machine can be expanded to 40 outdoor units and 256 indoor units group
- Control and monitor A/C units ON/OFF and operation mode status
- Malfunction error display
- Control and monitor temperature setting for outdoor units
- Monitor and replace filter in use (cleaning signal)
- Control and monitor operation mode change
- Remote controller setting (ON/OFF, operation mode and temperature)
- Control and monitor airflow direction and rate
- Schedule Timer
- Interlock control (fire alarm, door lock and malfunction, etc)
- Forced OFF setting, etc

Note 1: Compatibility with i-Manager, in this case, BACNet® System only monitors, i-Manager System controls, the air conditioning system.

Note 2: System controlled via PC software. Software to be supplied by third party



DTA116A621

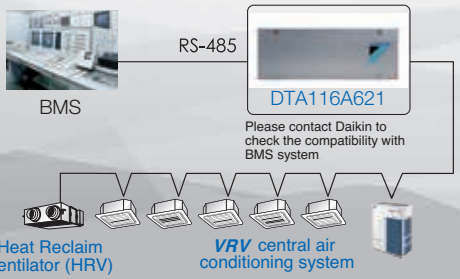
MODBUS Adapter

- Links up to 64 indoor units and 10 outdoor units
- ON/OFF function allows temperature setting and airflow control
- Operating mode setting
- Filter signal reset function
- Abnormality sensor

Note1: Control via third-party PC software.

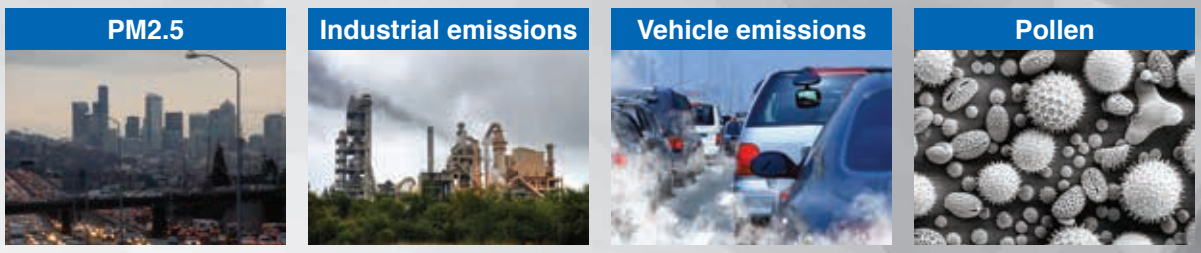
Note2: Please consult Daikin engineers for connection options.

Note3: Applicable functions varies with models. Please consult Daikin engineers for details.



Air Purifying Products

In a densely populated modern city, people are not just seeking a comfortable indoor temperature. They also want clean and fresh indoor air to help them stay focused and relaxed at work. However, the frequent smog spells have led to deteriorating air quality.

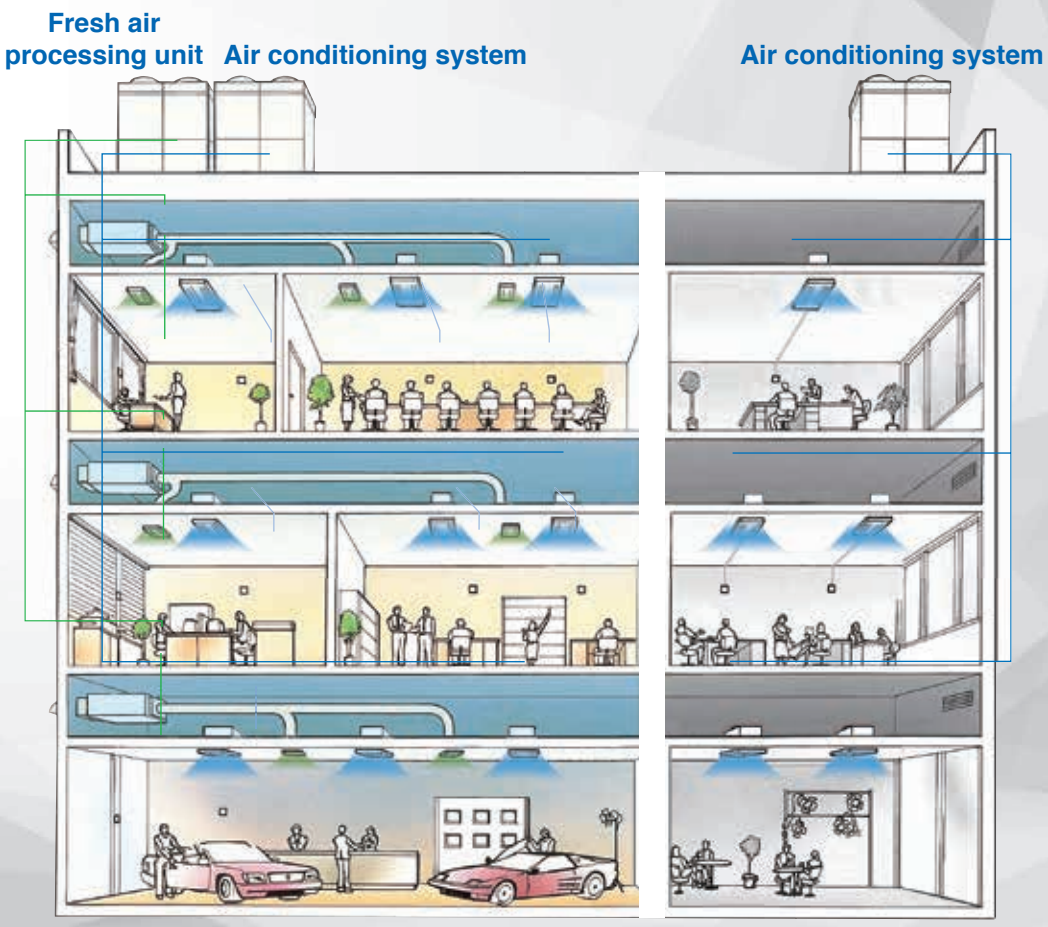


* Increasing levels of these pollutants and particles have led to a more complicated air composition in urban areas.

VRV Fresh Air Processing Unit

With an airflow rate from 1080-6000m^3/h, the ***VRV*** fresh air processing unit shares the high quality of ***VRV*** air conditioning system and meets the need of fresh air in different spaces. It can also work with Daikin's fresh air filter accessories to create a green environment for city-dwellers to reconnect to nature.

- The direct expansion technology quickly and accurately heats up or cools down fresh air from the outdoor to near room temperature.
- To address the threat of frequent smog spells, the *VRV* fresh air processing unit can work with Daikin's fresh air filter accessories to filter harmful substances like PM2.5, SO_2 and NO_2 before directing the air indoors, creating a healthy indoor environment.
- The DC inverter technology and new refrigerant R410A help save energy.
- Integrated control of the *VRV* air conditioning system and fresh air processing unit via Daikin's smart management system.
- Easy system implementation and coordinated CO_2 level control via intelligent touch Manager, intelligent Manager III and intelligent touch Controller.



Air Purifying Products

Fresh Air Processing Unit: Air Conditioning and Fresh Air Treatment Through a Single System

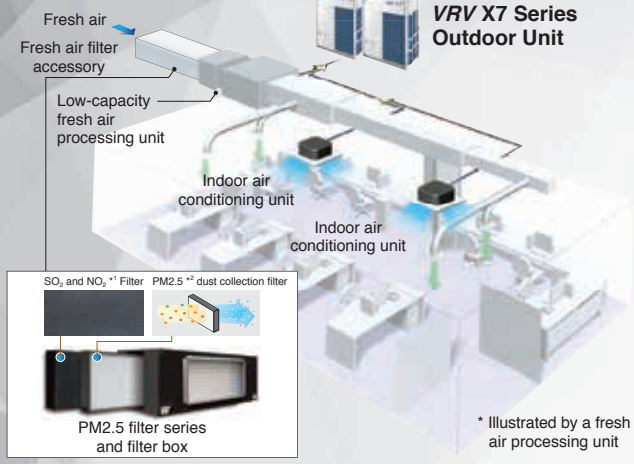
- Indoor air conditioning unit and fresh air processing unit can be connected to the same outdoor unit to lower system cost
- Indoor air conditioning unit and fresh air processing unit can be connected to the same outdoor unit to minimize outdoor installation space

FXMFP140AB
FXMFP224AB
FXMFP280AB

Type E wired remote controller BRC1E631 (option)

Type C wired remote controller BRC1C611 (option)

***VRV* X7 Series Outdoor Unit**



* Illustrated by a fresh air processing unit

*1 Internal test results, based on lab temperature of 22-25°CDB, humidity of 35-40%RH and airflow rate of 0.2m/s.

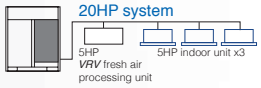
*2 Daikin PM2.5 filter received the highest grade under the GB/T14295-2008 standard for air filters.

	Air conditioning system capacity	Fresh air filter accessory	Outdoor unit footprint (m^2)	Illustration
Individual connection	24HP	8HP	2.16	+
Mixed connection	32HP		1.68	

Connection Requirements

- The total connected capacity of a *VRV* fresh air processing unit and indoor air conditioning unit must be within 50%-100% of the capacity of the outdoor unit, in which the capacity of the connected VRV fresh air processing unit must not exceed 30% of the capacity of the outdoor unit.
- *VRV* fresh air processing unit can be used individually, and the total capacity of the connected *VRV* fresh air processing unit must be between 50% and 100% of the capacity of the outdoor unit.
- Fresh air processing unit can be connected to the *VRV* X7 series outdoor unit. Please consult Daikin engineers for other connection options of the outdoor unit.

Connection Example



Requirement 1: The total capacity of the connected *VRV* fresh air processing unit and indoor units should not exceed 100% of the capacity of outdoor unit. In this example, the total system capacity is 20HP, and the total capacity of the indoor units & fresh air processing unit is 20HP, so the requirement is met.
Requirement 2: The capacity of the *VRV* fresh air processing unit should not exceed 30%. In this example, i.e. 20HP*0.3=6HP, higher than the 5HP capacity of the *VRV* fresh air processing unit, so the requirement is met.

Fresh Air Processing Unit Specifications

Model			FXMFP140AB	FXMFP224AB	FXMFP280AB
Power Supply			1 - Phase 220V, 50Hz		
Rated Cooling Capacity		kW	14.0	22.4	28.0
Rated Heating Capacity		kW	8.9	13.9	17.4
Rated Power Consumption	Cooling	W	300	548	590
	Heating	W	300	548	590
Dimension (H x W x D)		mm	470 × 744 × 1100	470 × 1380 × 1100	
Outlet Size	(H x W)	mm	330 × 600	330 × 1200	
Airflow Rate		m^3/h	1080	1680	2100
External Static Pressure		Pa	185	225	205
Sound Level		dB(A)	42	47	
Piping Connections	Liquid	mm	Ø 9.5		
	Gas	mm	Ø 15.9	Ø 19.1	Ø 22.2
	Drain		PS1B(Internal Thread)		
Weight		kg	86	123	
Max. Fuse Amps	MFA	A	15		
Min. Circuit Amps	MCA	A	1.9	3.3	3.8

Notes: 1. Cooling capacity is based on outdoor temperatures of 33°CDB and 28.0°CWB.
2. Heating capacity is based on outdoor temperatures of 0°CDB and -2.9°CWB.
3. Default cooling temperature is 18°C and default heating temperature is 25°C.
4. Operation range is -5-43°CDB.
5. When installing the PS1B condensation drainage pipe onsite, the PVC32 (outer diameter) and DN25 pipes or above are recommended.

Fresh Air Filter Accessories Specifications

Fresh air filter accessory model			PM2.5 filter series	BAF429A20A	BAF429A40A	BAF429A60A
			Pure filter series	BAF429A20AC	BAF429A40AC	BAF429A60AC
Applicable models				FXMFP140/224/280AB	FMQ25PG15/20/30 FMQ30PG20 FMQ40PG20/30	FMQ50PG20/30 FMQ60PG20/30
Airflow rate			m^3/h	2100	4000	6000
Dimension (H x W x D)			mm	470 × 971 × 370	647 × 1323 × 370	647 × 1981 × 370
PM2.5 filter	Filter model			BAF424A20A	BAF424A60A	
	Dimension (H x W x D)		mm	448 × 964 × 74	625 × 654 × 74	
	Number of filter			1	2	3
	Initial pressure drop / final pressure drop		Pa	Below 40/100		
	Service life *1 (dust concentraion=0.1mg/m^3) *2			1 Year		
SO_2 and NO_2 filter *3	Filter model			BAF424A20AC	BAF424A60AC	
	Dimension (H x W x D)		mm	448 × 964 × 34	625 × 654 × 34	
	Number of filters			1	2	3
	Pressure drop		Pa	Below10		
	Service life *1			1 Year		

Notes: 1. 10hr/day x 21days x 12months ≈ 2500hr.
2. Ambient Air Quality Standard in GB Standards GB3095-1996 (Grade 2).
3. SO_2 and NO_2 filter is only applicable to pure filter series products with a model number ending with C.
4. To maintain the effectiveness of Daikin's fresh air filter accessories, please calculate and check the static pressure with reference to the external static pressure of VRV fresh air processing unit.

Air Purifying Products

Large-Capacity Fresh Air Processing Unit

FMQ25PG15/20/30
FMQ30PG20/30/50

FMQ40PG20/30/50
FMQ50PG20/30/50
FMQ60PG20/30/50

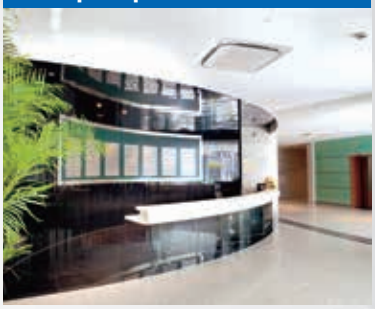
Type E wired remote controller BRC1E631 (option)

Type C wired remote controller BRC1C611 (option)

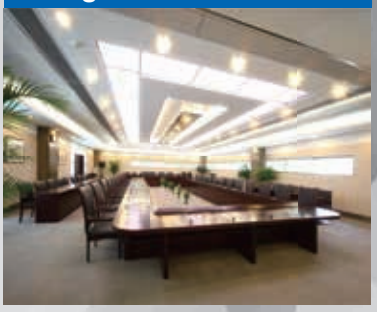
With an ultrahigh airflow rate of up to 6,000m^3/h and high external static pressure of up to 550Pa, the large-capacity fresh air processing unit meets the need of large spaces.

Large exhibition gallery

Open-plan work area



Large conference room



Large-Capacity Fresh Air Processing Unit Specifications

Model			FMQ25PG15	FMQ25PG20	FMQ25PG30	FMQ30PG20	FMQ30PG30	FMQ30PG50	FMQ40PG20
Power Supply			3 - Phase 380V, 50Hz						
Rated Cooling Capacity		kW	28.0						45
Rated Heating Capacity		kW	17.4						27.8
Rated Power Consumption	Cooling	W	400	470	660	630	810	1090	720
	Heating	W	400	470	660	630	810	1090	720
Dimension (H x W x D)		mm	500 × 1330 × 850					665 × 1620 × 850	
Airflow Rate		m³/h	2500			3000			4000
External Static Pressure		Pa	150	200	300	200	300	500	200
Sound Level		dB(A)	52	55	58	56	60		58
Piping Connections	Liquid	mm	Ø 9.5						Ø 12.7
	Gas	mm	Ø 22.2						Ø 28.6
	Drain		RP3/4 (Internal Thread)						RP1 (Internal Thread)
Weight		kg	102					107	173
Max. Fuse Amps	MFA	A	15						
Min. Circuit Amps	MCA	A	2.4						4.5
Compatible Outdoor Unit Model			RUXYQ10BA						RUXYQ16BA

Model			FMQ40PG30	FMQ40PG50	FMQ50PG20	FMQ50PG30	FMQ50PG50	FMQ60PG20	FMQ60PG30	FMQ60PG55
Power Supply			3 - Phase 380V, 50Hz							
Rated Cooling Capacity		kW	45		56.0					
Rated Heating Capacity		kW	27.8		34.8					
Rated Power Consumption	Cooling	W	1060	1570	840	1170	2970	1120	1440	3730
	Heating	W	1060	1570	840	1170	2970	1120	1440	3730
Dimension (H x W x D)		mm	665 × 1620 × 850		665 × 1980 × 850		665 × 1620 × 850	665 × 1980 × 850		
Airflow Rate		m³/h	4000		5000			6000		
External Static Pressure		Pa	300	500	200	300	500	200	300	550
Sound Level		dB(A)	61			65		62	65	
Piping Connections	Liquid	mm	Ø 12.7		Ø 15.9					
	Gas	mm	Ø 28.6							
	Drain		RP1 (Internal Thread)							
Weight		kg	173	179	193		199	193	197	210
Max. Fuse Amps	MFA	A	15							
Min. Circuit Amps	MCA	A	4.5						6.8	
Compatible Outdoor Unit Model			RUXYQ16BA		RUXYQ20BA					

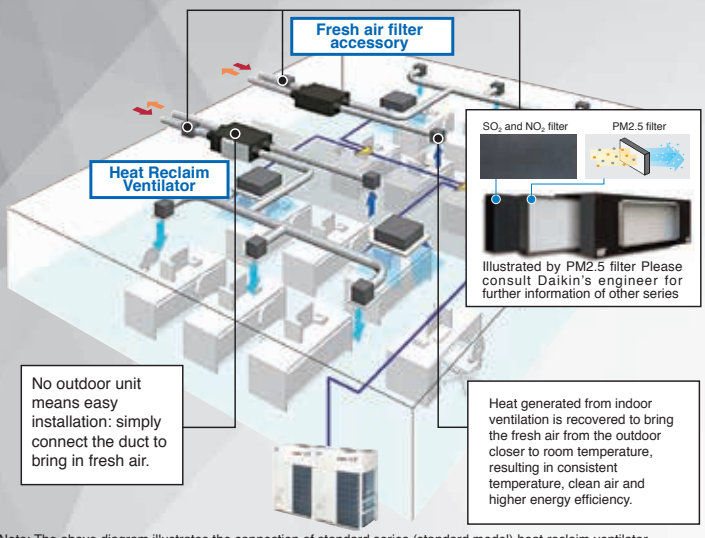
Notes:
1. Cooling capacity is based on outdoor temperatures of 33°CDB and 28.0°CWB.
2. Heating capacity is based on outdoor temperatures of 0°CDB and -2.9°CWB.
3. Default cooling temperature is 18°C and default heating temperature is 22°C.
4. Operation range is -5-43°CDB.
5. The large-capacity fresh air processing unit can be connected to an outdoor unit in a fixed layout. An outdoor unit cannot be connected to multiple fresh air processing units at the same time.
6. The large-capacity fresh air processing unit and other VRV indoor units cannot share the same VRV outdoor unit.
7. When installing the condensation drainage pipe onsite:
   The PVC25 (outer diameter) and DN20 pipe or above are recommended for RP3/4 condensation drainage pipe (main unit).
   The PVC32 (outer diameter) and DN25 pipe or above are recommended for RP1 condensation drainage pipe (main unit).

Air Purifying Products

Heat Reclaim Ventilator

The fresh air system independent of the air conditioning unit can bring the fresh air closer to room temperature through efficient heat exchange using the heat generated from indoor ventilation, effectively lowering the air conditioning cost.

Comfortable Ventilation and Stable Room Temperature



Note: The above diagram illustrates the connection of standard series (standard model) heat reclaim ventilator.

Diversified Portfolio to Meet Different Needs

Standard series Heat Reclaim Ventilator

Standard model: maximum airflow rate of 4000m³/h, suitable for medium or large offices and villas

Slim model: The 200mm ultra-thin unit can flexibly suit small spaces or those with inadequate ceiling space.

Low-temperature slim model: a wider temperature range with the lowest operating temperature at -25°C.

High static pressure model: the high external static pressure setting is suitable for spaces with a lower ceiling and many beams.

PM2.5 Purifying Series Heat Reclaim Ventilator (standard / slim / low-temperature slim / high static pressure model)

Highest-graded EPA*1 PM2.5 electrostatic filter ensures high air quality.

PM2.5 Exhaust Air Purifying Series Heat Reclaim Ventilator (standard / slim / low-temperature slim / high static pressure model)

Includes highly efficient EPA*1 PM2.5 filter and block SO_2 and NO_2 *2 to enhance indoor air quality.

PM2.5 Professional Purifying Series Heat Reclaim Ventilator (high static pressure model)

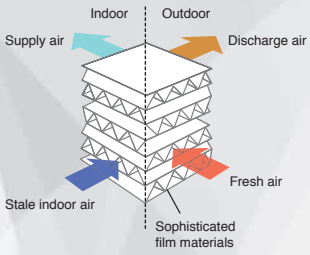
An EPA*1 electrostatic filter with a three-layer structure

*1 Examined by China Academy of Building Research according to GB/T14295-2008 standard for air filters.

*2 Internal test results are based on lab temperature of 22-25°CdB, humidity of 35-40%RH and airflow rate of 0.2m/s.

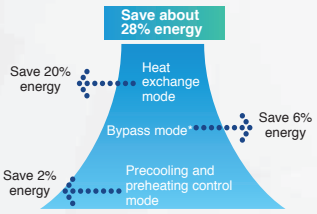
Leading Heat Exchange Efficiency

Absorbent and humidifying material High Efficiency Paper (HEP) enables highly efficient heat exchange and enthalpy exchange.



Excellent Energy-Saving Performance

By combining the heat exchange, bypass and precooling and preheating control modes, the annual air conditioning load can be reduced by approximately 28%.*



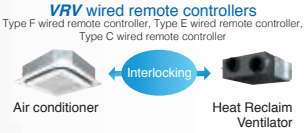
* The above data are internally calculated values under different modes, including the heat exchange mode, bypass mode and precooling and preheating control mode; applicable to standard heat exchanger model.

Coordinated Control

The fresh air processing function and CO_2 level can be easily controlled at the same time via the advanced Daikin control system.

Coordinated Control of ***VRV*** units via Wired Remote Controllers

Controlling both the air conditioning unit and Heat Reclaim Ventilator with a single remote controller can significantly simplify the system operation.



Series	Type	Standard Type (VAM-GMVE)				Slim Type (VAML-GV1)			Low-Temperature Slim Type (VAML-GV1H)			High Static Pressure Type (VAMH-GV1)			
Standard Series	Model	150	250	350	500	100	200	300	100	200	300	150	250	350	500
	Image														
PM2.5 Purifying Series	Combo Model	IAQ 150GP	IAQ 250GP	IAQ 350GP	IAQ 500GP	IAQ 100LP	IAQ 200LP	IAQ 300LP	IAQ 100HP	IAQ 200HP	IAQ 300HP	IAQ 150GPH	IAQ 250GPH	IAQ 350GPH	IAQ 500GPH
	Replacement Filter Model (Optional)*	BAF244A 300	BAF244A500			BAF244A300			BAF244A300			BAF244A 300	BAF244A500		
PM2.5 Exhaust Air Purifying Series	Combo Model	IAQ 150GPN	IAQ 250GPN	IAQ 350GPN	IAQ 500GPN	IAQ 100LPN	IAQ 200LPN	IAQ 300LPN	IAQ 100HPN	IAQ 200HPN	IAQ 300HPN	IAQ 150GPHN	IAQ 250GPHN	IAQ 350GPNH	IAQ 500GPHN
	Replacement Filter Model (Optional)*	BAF244A 300C	BAF244A500C			BAF244A300C			BAF244A300C			BAF244A 300C	BAF244A500C		
PM2.5 Professional Purifying Series	Combo Model											IAQ150 GPHNH	IAQ250 GPHNH	IAQ350 GPHNH	IAQ500 GPHNH
	Replacement Filter Model (Optional)*											BAHP244A300			
Basic Parameters	Applicable Remote Controller: Wired	BRC301B611 (For coordinated control with indoor air conditioning unit, wired remote controller and corresponding to the indoor air conditioning units can be chosen)													
	Power Supply	1 - phase 220V, 50Hz													
	Airflow Rate (m³/h)	150	250	350	500	100	200	300	100	200	300	150	250	350	500

Type	Standard Type (VAM-GMVE)			
Model	800	1000	1500	2000
Image				
Type	PM2.5 Purifying Series			
Image				
Equipped Filter Model	BAF424A20A (For PM2.5)			
Type	PM2.5 Exhaust Air Purifying Series			
Image				
Equipped Filter Model	BAF424A20A (For PM2.5)			
	BAF424A20AC (For NO_2 and SO_2)			
	800	1000	1500	2000

* Filter is equipped in the filter box. For replacement purpose, please purchase a new filter model with reference to the "Replacement Filter Model (Optional)" and consult Daikin's engineer for further details.

Air Purifying Products

Heat Reclaim Ventilator (Standard Type)

Model		VAM800GMVE			VAM1000GMVE			VAM1500GMVE			VAM2000GMVE		
		Ultrahigh	High	Low	Ultrahigh	High	Low	Ultrahigh	High	Low	Ultrahigh	High	Low
Power Supply		1 - Phase 220V, 50 Hz											
Power Consumption (W)		660			725			1225			1335		
Airflow Rate (m^3/h)		800	800	665	1000	1000	840	1500	1500	1200	2000	2000	1600
Operating Sound Level (dB(A))		42	40	37	42.5	40	37	42.5	41	38	43.5	41	39
External Static Pressure (Pa)		130	90	85	160	115	90	110	80	55	110	55	40
Temperature Exchange Efficiency (%)	Cooling	59	59	63	64	64	65.5	59	59	63.5	64	64	66
	Heating	76	76	80	76	76	78	76	76	81	76	76	79
Enthalpy Exchange efficiency (%)	Cooling	54	54	57	58	58	61	53	53	57.5	58	58	62
	Heating	65	65	68.5	67	67	70	65.5	65.5	69	67	67	71
Dimension (mm)	Height	387						785					
	Width	1110						1618					
	Depth	832			1214			832			1214		
Weight (kg)		55			67			129			157		
Duct Diameter (mm)		Ø 250						Ø 350					

Notes: 1. Operation range of standard heat exchanger: -15°C~50°C; humidity: below 80%
2. The above data are based on the test results under GB Standards GB/T21087-2007
3. When used with the pressure tank, the Heat Reclaim Ventilator can achieve airflow rates of 3000m^3/h and 4000m^3/h.
4. Please refer to the product brochure for the specifications of Heat Reclaim Ventilator (Slim Type / Low-Temperature Slim Type / Standard Type) with airflow rate below 500m^3/h and relevant filer boxes.

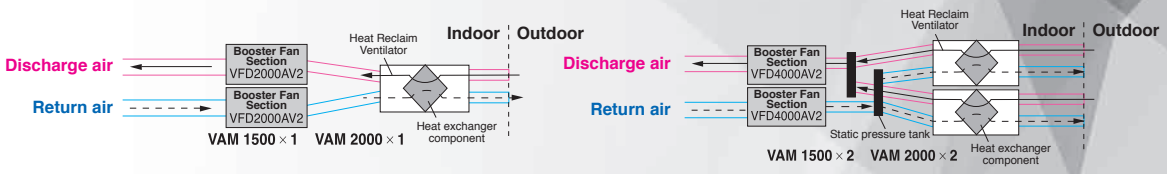
Optional Booster Fan Section For Larger Space

The optional Booster Fan Section can increase the airflow rate to 4000m^3/h and external static pressure to 285Pa, providing sufficient pressure for a larger space.

VFD2000AV2

VFD4000AV2

Applicable Models and Combinations



Booster Fan Section Specifications

Model				VFD2000AV2		VFD4000AV2	
Heat Reclaim Ventilator (Standard Type)				VAM2000GMVE x 1 (Fan mode: ultrahigh/ high)	VAM1500GMVE x 1 (Fan mode: low)	VAM2000GMVE x 2 (Fan mode: ultrahigh/ high)	VAM1500GMVE x 2 (Fan mode: low)
Power Supply				1 - Phase 220V, 50 Hz			
Rated Energy Consumption			W	650		1300	
Dimension (HxWxD)			mm	387 × 720 × 934		785 × 720 × 934	
Air Duct (HxW)			mm	237 × 672		604 × 672	
Fan	Type			Multi-fin fan			
	Airflow Rate	Ultrahigh	m^3/h	2000	—	4000	—
		High	m^3/h	2000	—	4000	—
		Low	m^3/h	—	1500	—	3000
	External Static Pressure	Ultrahigh	Pa	175	—	175	—
		High	Pa	120	—	120	—
		Low	Pa	—	155	—	155
Operation Sound Level		Ultrahigh	dB(A)	44	—	49	—
		High	dB(A)	43	—	46	—
		Low	dB(A)	—	42	—	44
Weight			kg	49		99	
Operation Environment				-15°CDB~50°CDB below 80%RH			

Note: 1. Above model is part of a system and must be used with the Heat Reclaim Ventilator. Connector BRP50-2 is required to connect to Heat Reclaim Ventilator.
2. Airflow Rate Option: ultrahigh or high; default airflow rate: low.

More Filter Box Options for Optimal Results

Series		PM2.5 purifying series				PM2.5 Exhaust purifying series			
Compatible Heat Reclaim Ventilator Model		VAM800GMVE	VAM1000GMVE	VAM1500GMVE	VAM2000GMVE	VAM800GMVE	VAM1000GMVE	VAM1500GMVE	VAM2000GMVE
Airflow Rate (m^3/h)		800	1000	1500	2000	800	1000	1500	2000
Dimension (HxWxD) (mm)		470 × 971 × 370				470 × 971 × 370			
Duct Diameter (mm)		580 × 348				580 × 348			
PM2.5 filter	Initial Pressure Loss (Pa)	Below 40				Below 40			
	Dust Collection Efficiency*1	Over 95%				Over 95%			
	Service Life*2 (Dust Concentration = 0.1mg/m^3)*3	1 Year				1 Year			
	Replacement Filter (Optional)*4	BAF424A20A				BAF424A20A			
	Number of Filter	1				1			
$SO_2$and NO_2 filter	Initial Pressure Loss (Pa)					Below 10			
	Service Life*2					1 Year			
	Replacement Filter (optional)*4					BAF424A20AC			
	Number of Filter					1			
Total Initial Pressure Loss of Pure Filter Box (Pa)						Below 50			

*1 Remove over 95% of inhalable particles (≥10um in diameter)
*2 Minimum test duration: 10 hours/day x 21days x12 months = 2,500 hours
*3 GB Standards GB3095-1996 (Grade 2)
*4 Filter is equipped in the filter box. For replacement purpose, please purchase a new filter model with reference to the "Replacement Filter Model (Optional)" and consult Daikin's engineer for further details.
*5 To maintain the effectiveness of Daikin's fresh air filter accessories, please calculate and check the static pressure with reference to the external static pressure of VRV fresh air processing unit.

Outdoor Units

The Outdoor Unit Capacity Is Up To 66Hp In Increment Of 2HP

The single outdoor unit has only 2 different shape 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 2HP, customers' need can be precisely met.

8 HP RUXYQ8BA
10 HP RUXYQ10BA
12 HP RUXYQ12BA

14 HP RUXYQ14BA
16 HP RUXYQ16BA
18 HP RUXYQ18BA
20 HP RUXYQ20BA
22 HP RUXYQ22BA

24 HP RUXYQ24BA
26 HP RUXYQ26BA
28 HP RUXYQ28BA
30 HP RUXYQ30BA
32 HP RUXYQ32BA
34 HP RUXYQ34BA

36 HP RUXYQ36BA
38 HP RUXYQ38BA

40 HP RUXYQ40BA
42 HP RUXYQ42BA
44 HP RUXYQ44BA

46 HP RUXYQ46BA
48 HP RUXYQ48BA
50 HP RUXYQ50BA
52 HP RUXYQ52BA
54 HP RUXYQ54BA
56 HP RUXYQ56BA

58 HP RUXYQ58BA
60 HP RUXYQ60BA
62 HP RUXYQ62BA
64 HP RUXYQ64BA
66 HP RUXYQ66BA

Outdoor Series Combinations

Model	RUXYQ8BA	RUXYQ10BA	RUXYQ12BA	RUXYQ14BA	RUXYQ16BA	RUXYQ18BA	RUXYQ20BA	RUXYQ22BA			
Model	RUXYQ24BA	RUXYQ26BA	RUXYQ28BA	RUXYQ30BA	RUXYQ32BA	RUXYQ34BA	RUXYQ36BA	RUXYQ38BA	RUXYQ40BA	RUXYQ42BA	RUXYQ44BA
Combination	RUXYQ10BA	RUXYQ12BA	RUXYQ8BA	RUXYQ8BA	RUXYQ10BA	RUXYQ12BA	RUXYQ14BA	RUXYQ18BA	RUXYQ18BA	RUXYQ20BA	RUXYQ22BA
	RUXYQ14BA	RUXYQ14BA	RUXYQ20BA	RUXYQ22BA	RUXYQ22BA	RUXYQ22BA	RUXYQ22BA	RUXYQ20BA	RUXYQ22BA	RUXYQ22BA	RUXYQ22BA
Model	RUXYQ46BA	RUXYQ48BA	RUXYQ50BA	RUXYQ52BA	RUXYQ54BA	RUXYQ56BA	RUXYQ58BA	RUXYQ60BA	RUXYQ62BA	RUXYQ64BA	RUXYQ66BA
Combination	RUXYQ10BA	RUXYQ12BA	RUXYQ8BA	RUXYQ10BA	RUXYQ10BA	RUXYQ12BA	RUXYQ14BA	RUXYQ20BA	RUXYQ18BA	RUXYQ20BA	RUXYQ22BA
	RUXYQ14BA	RUXYQ14BA	RUXYQ20BA	RUXYQ20BA	RUXYQ22BA	RUXYQ22BA	RUXYQ22BA	RUXYQ20BA	RUXYQ22BA	RUXYQ22BA	RUXYQ22BA
	RUXYQ22BA	RUXYQ22BA	RUXYQ22BA	RUXYQ22BA	RUXYQ22BA	RUXYQ22BA	RUXYQ22BA	RUXYQ20BA	RUXYQ22BA	RUXYQ22BA	RUXYQ22BA

Indoor Units

Wide Range Of Choices

Type	Model		2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1	8.0	9.0	10.0	11.2	12.5	14.0	15.0	16.0	50.0
New Ceiling Mounted Cassette (Round Flow with Sensing) Type	FXFSP-BA		•		•		•		•		•		•	•	•	•	•	•	•			
Ceiling Mounted Cassette (Round Flow) Type	FXFP-LVC				•		•		•		•		•	•	•	•	•	•	•			
Ceiling Mounted Cassette (Double Flow) Type	FXCP-MMVC		•		•		•		•		•		•		•				•			
Ceiling Mounted Cassette Corner Type	FXCP-EPVC		•	•	•	•	•	•	•	•	•	•	•									
New Ceiling Mounted Duct Type	FXMP-BA				•		•	•	•						•		•		•		•	
	FXMP-BB										•	•	•									
New Ceiling Mounted Built-in Type	FXSP-CA		•		•		•		•		•		•	•	•	•	•	•	•	•	•	
New Ceiling Mounted Duct (Large Capacity) Type	FDXQA020AA																					•
Ceiling Mounted Duct (3D Airflow with Sensin) Type	FXDSP-ABP		•	•	•	•	•	•	•	•	•	•	•									
Ceiling Mounted Duct (3D Airflow) Type	FXDAP-ABP		•	•	•	•	•	•	•	•	•	•	•									
Slim Ceiling Mounted Duct (Compact) Type	FXDP-QPVC		•	•	•	•	•	•	•	•	•	•	•									
Slim Ceiling Mounted Duct Type	FXDP-QPVC													•	•	•	•					
Concealed Floor Standing Type	FXNP-MNVC		•		•		•		•		•		•									
Floor Standing Type	FXNP-MLVC		•		•		•		•		•		•									
Wall Mounted Type	FXAP-NVC		•		•		•															

Air Processing Unit

A recent tend rapidly gaining popularity is for air treatment to be required as well as air conditioning. Daikin's Outdoor Air Processing Unit can combine fresh air treatment and air conditioning, supplied from a single system.

Type	Model	Airflow Rate Ramge (m^3/h)	1080	1680	2100	2500	3000	4000	5000	6000
Fres Air Processing Unit	FXMFP~AB		•	•	•					
Large Capacity Fresh Air Processing Unit	FMQ~PG15 (150Pa)					•				
	FMQ~PG20 (200Pa)					•	•	•	•	•
	FMQ~PG30 (300Pa)					•	•	•	•	•
	FMQ~PG50 (500Pa)						•	•	•	
	FMQ~PG55 (550Pa)									•

Control System

Daikin provides a wide range of control system, a VRV system controller featuring an array of simple, useful system management functions for added value.

Advanced Centralized Control System

intelligent touch Manager
DCM601A611M

intelligent Manager III
DAM602B51M

intelligent touch Controller
DCS601C51C

Central Remote Controller
DCS302C611

Residential Central Remote Controller
DCS303A611

DS-AIR adaptor
DTA117B611

Unified ON/OFF Controller
DCS301B611

Control/Connection Interface

Interface for use in BACnet ®
DMS502B51M

Interface for use in LONWORKS ®
DMS504B51C

Interface for use in MODBUS
DTA116A621

Wiring adaptor for electrical appendices
KRP4A80

Wiring adaptor for electrical appendices
KRP1B80

Control System

Individual Control System

Wired Remote Controller


BRC1F611


BRC1F611S


BRC1F611N

Type F wired remote controller

*Remote display language setting is available for Simplified Chinese/ English. Language on buttons is Simplified Chinese only.


BRC1E631


BRC1E631S


BRC1E631P


BRC1E631R


BRC1E631N

Type E wired remote controller

*Type E wired remote controller language is Simplified Chinese only.


BRC1C611

Type C wired remote controller

Wireless Remote Controller


BRC7F634F1
(White panel)


BRC7F634K1
(Black panel)


BRC4C651

BRC4L631

BRC7L611

BRC4L611

BRC4L621

BRC7L661


BRC4C623


BRC7E718W

NOTE

Warning

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

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

Cautions on product corrosion

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

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