



Note • Ask an authorised Daikin dealer to install Daikin products. Do not try to install the product yourself or get it installed by any unauthorised dealer. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion. Warranty of the product shall be void if not installed by an authorised Daikin dealer.

- Use only those parts and accessories supplied or specified by Daikin. Ask authorised Daikin dealer for any repairs or components. Warranty of the product / component shall be void if non-specified spares are used or repaired by a non Daikin dealer.
- Please ensure to install ELCB (Earth Leakage Circuit Breaker) for outdoor units to prevent ground
- Read the User's manual carefully before using the product. The User's Manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

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









Cautions on product corrosion

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





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



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

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Cooling Only High Ambient

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IN X

Cooling Only

Equipped with Advanced Technology that results in high energy efficiency

This technological innovation gives the user the advantage of better comfort, while working further towards creating a sustainable environment.



DAIKIN

The world leader in airconditioning

Daikin is the leading innovator and provider of advanced, high-quality air conditioning solutions for residential, commercial and industrial applications with our long line of products from refrigerants to air conditioners.

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

Established in 1924, Daikin Industries Ltd. is a diverse multi-national company that is active in air conditioning, chemicals and oil hydraulics. With headquarters at Osaka, Japan, our Daikin family has more than 76,000 members, working at 292 subsidiaries and across 100 production bases worldwide.

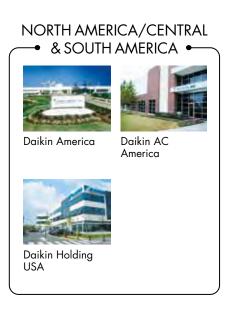
We are present in the USA, Europe and Russia, The Middle East, Africa, Asia, Oceania and Middle-South America. We aim to serve our customers in each of these markets by providing optimal air conditioning solutions.











|2|

Exploring new R&D frontiers

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

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

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





To create more advanced functions and new value, we have instituted specialised R&D divisions: the 'Environmental Technology Research Laboratory' and the 'Solution Product Development Centre'.

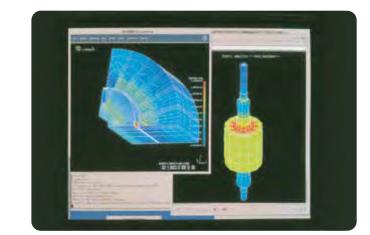
Together with the Product Development Group, these divisions work in close cooperation to precisely ascertain the customers' needs and to enable commercialisation of products by incorporating advanced technologies that take the lead over our competitors.



Accelerating globalisation of our airconditioning business and varied needs of customers across geographies are increasing our research challenges. We have established a research laboratory devoted to the study of 'airconditioning' and 'the environment'. Our aim is to create futuristic products from fundamental research on motor inverters, and other areas to support individual product development.

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

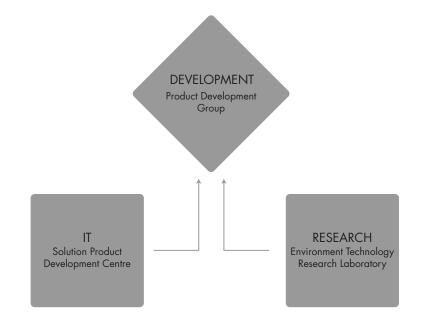




The Solutions Product Development Centre: Integrating Airconditioners with IT.

We have integrated IT solutions like communication and software technologies into our airconditioners to respond to the increasing need and reliance of the market on computerization and networking.

This will enable us to provide excellent service through the exchange of information with service centers.





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



Research & Development Centre, India: Reiterating its commitment to the respective markets it serves, Daikin India R&D is dedicated to providing customized solutions to its customers.

Variable refrigerant

temperature



Customise your VRV for best seasonal efficiency and comfort

Thanks to its revolutionary variable refrigerant temperature technology (VRT), VRV X continuously adjusts both the inverter compressor speed and the refrigerant temperature, providing the necessary capacity to meet the building load with the highest seasonal efficiency at all times!

- Seasonal efficiency increased by 28% (compared to conventional VRF)
- > First weather compensating control on the market
- Customer comfort is assured thanks to higher outblow temperatures (preventing cold draughts)

How does it work?

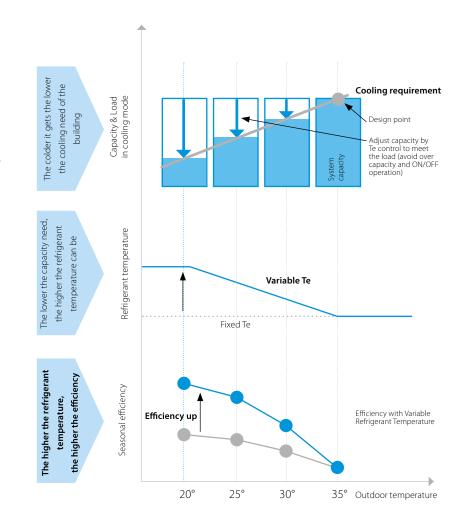
VRF standard

Capacity is controlled only with the variance of the inverter compressor

Daikin VRV X

Variable Refrigerant Temperature control for energy saving in partial load condition.

The capacity is controlled by the inverter compressor AND variation of the evaporating (Te) temperature of the refrigerant in order to achieve the highest seasonal efficiency.



New series with compact and light weight design 6HP - 48HP with 22-model lineup



Lineup

HP	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
Cooling only																						
	NEW																					

STATE-OF-THE-ART TECHNOLOGY

New heights in energy efficiency during actual operation

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

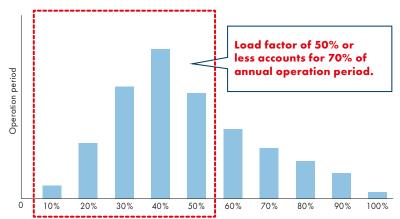
Using data gathered from actual operation, Daikin discovered that air conditioning systems operate at a load factor of 50% or less for 70% of their annual operation period.

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

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

\bullet Correlation between the load factor for the rated capacity and operation time

*According to a survey by Daikin (based on Air Conditioning Network Service System data)



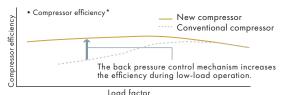
Load factor for the rated capacity

Hardware technology

New Scroll Compressor*

Refrigerant leakage is minimised during low-load operation.

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



*Graph shown above is for illustration purposes only

Back pressure control mechanism

Conventional mechanism

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



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

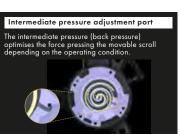
New intermediate pressure mechanism

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



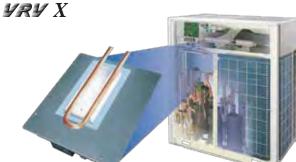
The intermediate pressure keeps pressing the movable scroll during low-load operation.





Improves performance by increasing heat exchanger area while maintaining the same installation space. VRF Realises highly integrated heat exchanger performance by employing 3 rows & reduced fin pitch coil as well as reduction in airflow resistance by adopting small pipe size design. 16HP 3 rows with small pipe design, increase heat transfer efficiency





Refrigerant cooling technology, ensures stability of PCB temperature

Improves reliability at high ambient temperature

It is possible to cool the inverter power module stability even at high ambient temperature. This helps to keep airconditioning capacity and also ensures efficient and reliable operation.

Simplified commissioning and after-sales service

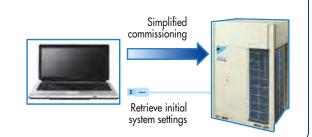
Function of information display by luminous digital tube

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

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

VRV configurator

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



Outdoor unit sequencing technology

Automatic sequencing operation

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

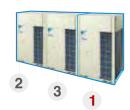












Double backup operation functions responding resiliently to various unexpected situations

Double backup operation functions

Daikin VRV X system boasts double backup operation functions, which can secure the use of air conditioners in this area to the greatest extent by emergently enabling double backup operation functions even if failure occurs in a set of airconditioning equipment.

In the event of a failure, emergency operation can be enabled conveniently to allow the remaining system to operate in a limited fashion.

Compressor Backup Operation Function

If malfunction occurs in a compressor...

Emergency operation can be easily set and enabled by the outdoor unit (for a single outdoor unit system)



Unit backup operation function

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

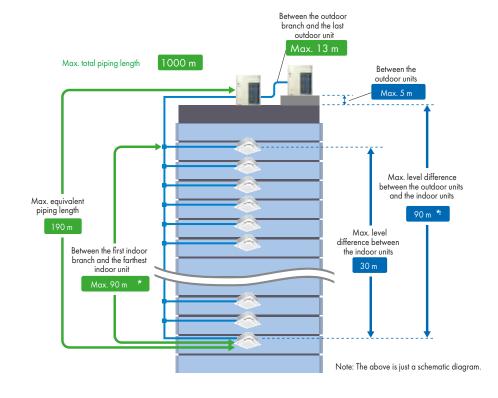


MORE FLEXIBLE SYSTEM DESIGN

More options for installation location

Long piping length

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



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

- 1. No special requirements up to 40 m. The maximum actual piping length can be 90 m, depending on conditions. Various conditions and requirements have to be met to allow utilisation of 90 m piping length
- 2. When level differences are 50 m or more, the diameter of the main liquid piping size must be increased. If the outdoor unit is above the indoor unit, a dedicated setting on the outdoor unit is required.

Connection ratio

Connection capacity at maximum is 130%.

50%-130%

Total capacity index of the indoor units

Capacity index of the outdoor units

100 min (n) () () () THE REAL PROPERTY.

High external static pressure

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

78.4 Pa

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



OUTDOOR UNIT LINEUP

Outdoor Units

The outdoor unit capacity is up to 48 HP in increment of 2 HP.

- VRVX outdoor units offer a capacity of up to 48HP, responding to the needs of large-sized buildings.
- The single outdoor unit has only 2 different shapes and dimensions, not only simplifying the design process, but also bringing the system flexibility to a new level.
- With the outdoor unit capacity increased in increment of 2 HP, customers' needs can be precisely met.
- Outdoor units with anti-corrosion specifications (-E type on request) are designed specifically for use in areas which are subject to salt damage and atmospheric pollution.

Standard Type

Single Outdoor Units

6, 8 HP 10, 12 HP



RXQ6ARYFK

RXQ8ARYFK





RXQ10ARYFK

RXQ12ARYFK



14, 16 HP

RXQ14ARYFK RXQ16ARYFK

• Double Outdoor Units

18, 20 HP



RXQ18ARYFK RXQ20ARYFK

• Double Outdoor Units

24, 26, 28, 30, 32 HP



RXQ24ARYFK RXQ26ARYFK RXQ28ARYFK RXQ30ARYFK RXQ32ARYFK • Triple Outdoor Units

34, 36, 38, 40, 42, 44, 46, 48 HP



RXQ34ARYFK RXQ36ARYFK RXQ38ARYFK RXQ40ARYFK RXQ42ARYFK RXQ44ARYFK RXQ46ARYFK RXQ48ARYFK

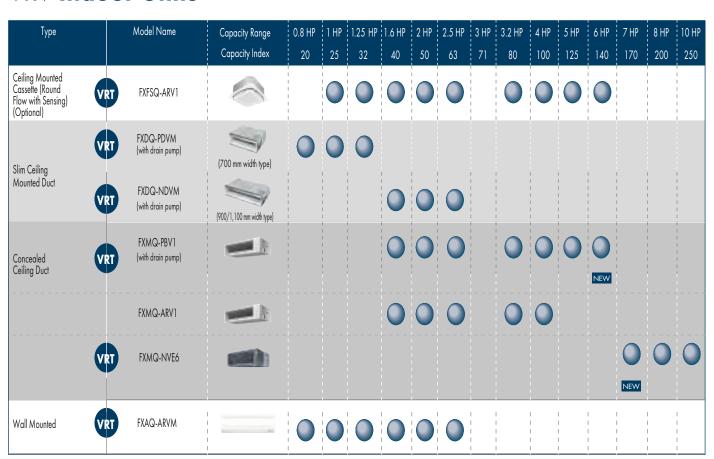
Lineup

HP	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	4
Cooling only	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•			

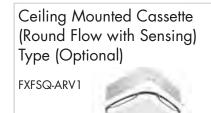
Enhanced Range Of Choices

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

VRV Indoor Units



At Daikin, we offer a wide range of VRV indoor units that respond to a variety of customer needs for airconditioning solutions.



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

High external static pressure

allows flexible installations







Wall Mounted Type

FXAQ-ARV1

Stylish flat panel design harmonised with your interior décor

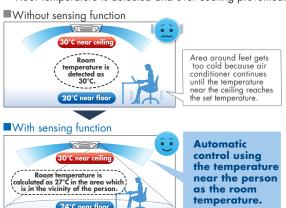
VRVIndoor Units

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

Sensing function

Auto airflow rate mode + Auto airflow direction mode

• Floor temperature is detected and over cooling prevented.



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

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

Comfortable airflow

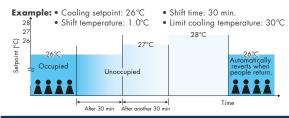
Energy savings

Airflow rate automatically increases during hot or cold periods (when there is a large difference with set temperature), and operation is rapidly performed for cooling. When the difference with set temperature becomes small, drafts are prevented by automatically reducing airflow rate, and raising the flap to a horizontal position during the cooling operation.

Sensing sensor mode

Sensing sensor low mode

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



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

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

Sensing sensor stop mode*1.2

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

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

*1. These functions are not available when using the group control system.

Airflow block function

• Total comfort by individual airflow direction control and newly-equipped "airflow block function"



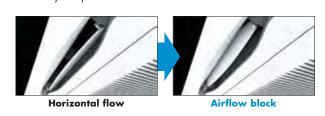
Airflow block function prevents uncomfortable drafts by reducing air velocity to approx. 0.3m/s.*4



• New airflow block function prevents uncomfortable drafts by reducing air velocity.

It can be set using the $\ensuremath{\mathsf{BRC1E63}}$ remote controller. There is no need for sealing material of air discharge outlet (option).

- This function only works when all-round flow is used. It cannot be used when sealing material is used in the air discharge outlet (option).
- Easy setup with remote controller



• The airflow block function is useful when rearranging the room layout.



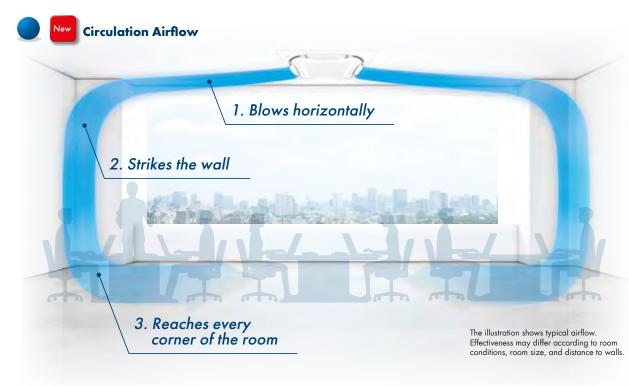
*3 Works in one direction only

*4. In case of FXFSQ63 type (Data is based on Daikin research.)
*5. A gap of 1500 mm is required if the air block function is not used.

VRV Indoor Units

Ceiling Mounted Cassette (Round Flow without Sensing)

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









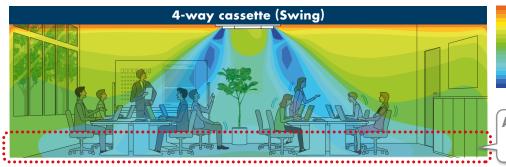


Circulation Air Flow

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

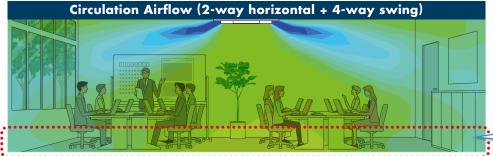


Comfort to the entire room with even temperatures and no cold air pockets at floor level



- **Comparison Conditions**
- Room size:
 Width 7.5m x depth 7.5m x height 2.6m
- Outdoor air temperature:35🛭 Airflow rate and air direction:

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

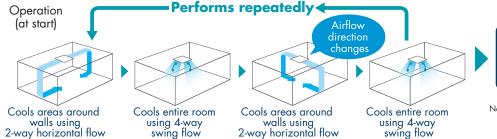


Approx. 5% energy savings by reducing uneven temperatures

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

Full comfort is provided with no cold feet.

Configurations of Circulation Airflow



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

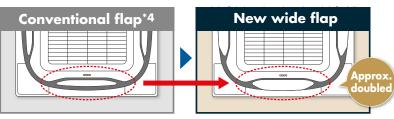
Note: Results may vary depending on equipment conditions, room size, and distance from indoor unit to walls.

Three technologies that achieved circulation airflow

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

Use of new wide flap (Straight)

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



*4. FXFSQ model

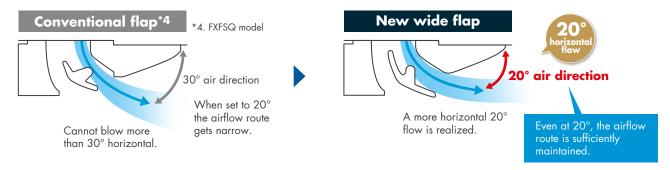
New wide flap construction inhibits ceiling dirt and grime

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



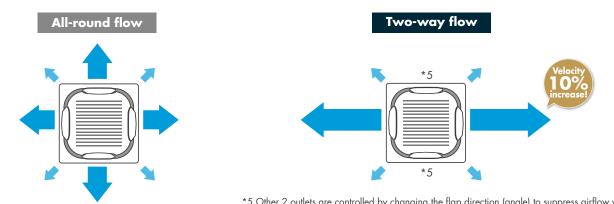
2 Optimizing airflow angle (Horizontally)

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



3 Increased velocity in 2-way flow (Strongly)

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



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

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

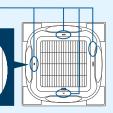
Comfortable air conditioning for all room layouts and Conditions

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

Position 0

Fixed airflow to highest position) Easy setting is possible with a wired remote controller.

BRC1E63



No individual setting (Auto airflow)

Position 4 Fixed airflow to the lowest position)

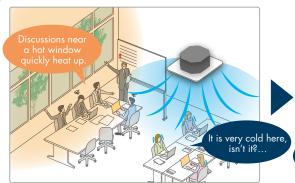
Individual airflow settings

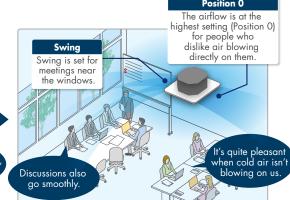
- No individual setting (Auto airflow)
- Position 0 (Highest point)
- Position 1
- Position 2
- Position 3
- Position 4 (Lowest point)
- Swing

Individual settings are possible as stated above.

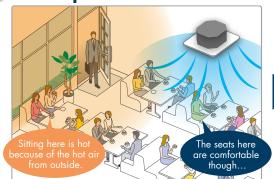
When individual airflow is selected, airflow direction can be adjusted to room layout.

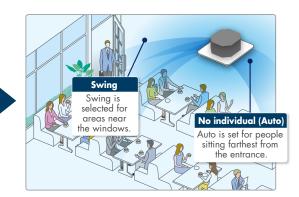
For offices





For shops and restaurant





VRV Indoor Units

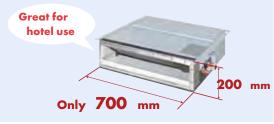
Slim Ceiling Mounted Duct Type

Slim design, quietness and static pressure switching

Suited to use in drop-ceilings

FXDQ20PD / FXDQ25PD / FXDQ32PD

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





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

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

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

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

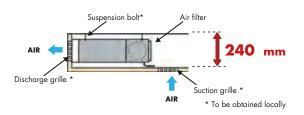


FXDQ40ND / FXDQ50ND / FXDQ63ND

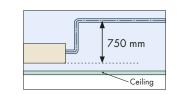
• Only 200 mm in height, this model can be installed in rooms with as little as 240 mm depth between the drop-ceiling and ceiling slab.



* 1,100 mm in width for the FXDQ63NB model.



- External static pressure selectable by remote controller switching make this indoor unit a very comfortable and flexible model.
 - 10 Pa-30 Pa/factory set: 10 Pa for FXDQ-PD models. 15 Pa-44 Pa/factory set: 15 Pa for FXDQ-ND models.
- FXDQ-PD and FXDQ-ND models are available with a drain pump as a standard accessory.



VRV Indoor Units

Ceiling Mounted Duct Type

FXMQ40PB / FXMQ50PB / FXMQ63PB FXMQ80PB / FXMQ100PB / FXMQ125PB FXMQ140PB



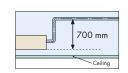
Middle and high static pressure allows for flexible duct design

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

30 Pa-160 Pa for FXMQ40PB 50 Pa-200 Pa for FXMQ50P-125PB 50 Pa-140 Pa for FXMQ140PB

All models are only 300 mm in height, an improvement over the 390 mm height of conventional models. The weight of the FXMQ40PB has been reduced from 44 kg to 28 kg.

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



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

Low operat	ion sound le	vel				(dB(A))
FXMQ-PB	40	50	63	80/100	125	140
Sound level (HH/H/L)	39/37/35	41/39/37	42/40/38	43/41/39	44/42/40	46/45/43

Energy-efficient

 The adopted DC fan motor is much more efficient than the conventional AC motor, yielding an approximate 20% decrease in energy consumption (FXMQ125PB).



Improved ease of installation

 Airflow rate can be controlled using a remote controller during test operations. With the conventional model, the airflow rate was controlled from the PC board. It is automatically adjusted to the range between approximately ±10% of the rated HH tap airflow for FXMQ40P-125PB.

Improved ease of maintenance

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

FXMQ170NV /FXMQ200NV FXMQ250NV

Simplified Static Pressure Control

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

VRV Indoor Units

Wall Mounted Type

FXAQ20AR / FXAQ25AR FXAQ32AR / FXAQ40AR FXAQ50AR / FXAQ63AR



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.

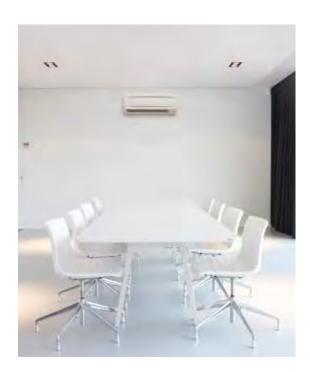
Flat panel can also be easily removed and washed for more thorough cleaning.

Low operation s	sound level					(dB(A))	
FXAQ-AR	20	25	32	40	50	63	
Sound level (H/L)	35/31	36/31	38/31	39/34	42/37	47/41	

- Drain pan and air filter can be kept clean by mould-proof polystyrene.
- Vertical auto-swing realises efficiency of air distribution.
 The louvre closes automatically when the unit stops.
- 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)

Flexible installation

• Drain pipe can be fitted to it from either left or right sides.



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





Cooling Only

SPECIFICATIONS

24

VRV Indoor Units

Ceiling Mounted Cassette (Round Flow) Type



	MODEL		FXFSQ25ARV1	FXFSQ32ARV1	FXFSQ40ARV1	FXFSQ50ARV1	FXFSQ63ARV1	FXFSQ80ARV1	FXFSQ100ARV1	FXFSQ125ARV1	FXFSQ140ARV1	
Power supply						1 -Phase, 220-:	240V, 50/60H	z				
Cooling agnesits		Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800	54,600	
Cooling capacity		kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14	16	
Casing						Gal	vanised steel pl	ate				
Airflow rate (HH/HA	A /AA /AAL /L\	m³/min	13/12.5/11.5/11/10	13/12.5/11.5/11/10	17/13.5/12.5/12/11	23/20.5/19/14.5/11	23.5/21/20/16/13.5	24.5/22/20.5/20/15	33.5/30.5/27/23.5/21	34.5/31.5/28.5/25.5/23	35.5/32.5/29.5/26.5/23	
Airilow rate (HH/ H/	/// /V// /V/L/ L)	cfm	459/441/406/388/353	459/441/406/388/353	600/477/441/424/388	812/724/671/515/388	830/742/706/565/477	865/777/724/706/530	1183/1077/953/830/742	1218/1112/1006/901/812	1254/1148/1042/936/812	
Sound level (H/L)		dB(A)	30/29.5/28.5/28/27	30/29.5/28.5/28/27	35/29.5/29/28/27	38/35/34.5/29.5/27	38/36/35.5/31.5/28	39/37/36/35.5/31	44/41/38/35/33	45/42.5/39.5/37/35	46/43.5/40.5/38/35	
Dimensions (H×W×E	Dimensions (HxWxD) mm			256x840x840	256x840x840	256x840x84 0	256x840x840	256x840x840	298x840x840	298x840x840	298x840x840	
Machine weight		kg	19	19	19	23	23	23	26	26	26	
	Liquid (Flare)		ф6.4	ф6.4	ф6.4	ф6.4	ф9.5	ф9.5	ф9.5	ф9.5	ф9.5	
Piping connections	Gas (Flare)	mm	ф12.7	ф12.7	ф12.7	ф12.7	ф15.9	ф15.9	ф15.9	ф15.9	ф15.9	
Connections	Drain					VP25 (Extern	nal Dia, 32/Inte	ernal Dia, 25)				
	Model					BYCQ	125EAF6 (Fres	h White)				
Panel (Non sensi)	Dimensions(HxWxD)	mm				4	50X950X950					
	Weight kg						5.5					
- 1/2 H	Model					BYCQ	125EEF6 (Fres	h White)				
Panel (Sensi)	Dimensions(H×W×D)	mm	50X950X950									
	Weight kg		5.5									

Slim Ceiling Mounted Duct Type (700 mm width type)



MODEL	with dr	ain pump	FXDQ20PDVM36	FXDQ25PDVM36	FXDQ32PDVM36				
Power supply				1-phase, 220-240 V/220 V, 50/60	Hz				
Cooling capac	ity	Btu/h	7,500	9,600	12,300				
coomig capac	''7	kW	2.2	2.8	3.6				
Casing				Galvanised steel plate					
Airflow rate (HH/H/L)			8.0/7.2/6.4	8.0/7.2/6.4	8.0/7.2/6.4				
Airtlow rate (HH/H/L)		cfm	282/254/226	282/254/226	282/254/226				
External static	pressure	Pa	30·10 ^{*2}						
Sound level (H	H/H/L) *1*3	dB(A)	33/31/29	33/31/29 33/31/29					
Dimensions (H	×W×D)	mm	200×700×620	200×700×620	200x700x620				
Machine weigl	nt	kg	23.0	23.0	23.0				
	Liquid (Flare)		Ø 6.4	Ø 6.4	Ø 6.4				
Piping connections	Gas (Flare)	mm	Ø 12.7	Ø 12.7	Ø 12.7				
COMICCIONS	Drain		VP20 (External Dia, 26/Internal Dia, 20)						

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



MODEL	with dra	in pump	FXDQ40NDVM36	FXDQ50NDVM36	FXDQ63NDVM36					
Power supply	·			1-phase, 220-240 V/220 V, 50/60	Hz					
Cooling capac	ity	Btu/h	15,400	19,100	24,200					
cooming capac			4.5	5.6	7.1					
Casing				Galvanised steel plate						
A : (1 . (1	rflow rato (HH /H /I)		10.5/9.5/8.5	12.5/11.0/10.0	16.5/14.5/13.0					
Airflow rate (F	irflow rate (HH/H/L)		371/335/300	441/388/353	583/512/459					
External static	pressure	Pa	44-15 ^{*2}							
Sound level (H	H/H/L) *1*3	dB(A)	34/32/30	35/33/31	36/34/32					
Dimensions (H	×W×D)	mm	200×900×620	200×900×620	200×1,100×620					
Machine weigl	ht	kg	27.0	28.0	31.0					
Liquid (Flare)			Ø 6.4	Ø 6.4	Ø 6.4					
Piping Gas (Flare)		mm	Ø 12.7	Ø 12.7	Ø 12.7					
	Drain		VP20 (External Dia, 26/Internal Dia, 20)							

VRV Indoor Units

Ceiling Mounted Duct Type



	MODEL		FXMQ40PBV1	FXMQ50PBV1	FXMQ63PBV1	FXMQ80PBV1	FXMQ100PBV1	FXMQ125PBV1	FXMQ140PBV1
Power supply									
Cooling capa	city	Btu/h	15,400	19,100	24,200	30,700	38,200	47,800	54,600
kW		kW	4.5	5.6	7.1	9.0	11.2	14.0	16.0
Casing					(Galvanised Steel Plat	e		
m³/min		m³/min	16/13/11	18/16.5/15	19.5/17.5/16	25/22.5/20	32/27/23	39/33/28	46/39/32
Airtiow rate (Airflow rate (HH/H/L)		565/459/388	635/582/530	688/618/565	883/794/706	1130/953/812	1377/1165/988	1624/1377/1130
External static	pressure	Pa	100(160-30)*1	100(200-50)*1	100(200-50)*1	100(200-50)*1	100(200-50)*1	100(200-50) *1	100(140-50) *1
Sound level (H	H/H/L)	dB(A)	39/37/35	41/39/37	42/40/38	43/41/39	44/42/39	43/41/39	46/45/43
Dimensions (H	l×W×D)	mm	300x700x700	300x1000x700	300x1000x700	300x1000x700	300x1400x700	300x1400x700	300x1400x700
Machine weig	jht .	kg	27.0	35.00	35.0	35.0	45.0	45.0	46.0
Liquid (Flare)			6.4	6.4	9.5	9.5	9.5	9.5	9.5
Piping Gas (Flare)		mm	12.7	12.7	15.9	15.9	15.9	15.9	15.9
Commodifications	Drain				VP25(E	xternal dia.32 Interna	al dia.25)		•



	MODEL		FXMQ40ARV1	FXMQ50ARV1	FXMQ63ARV1	FXMQ80ARV1	FXMQ100ARV1
Power supply				1 p	nase,230 V, 50/60Hz		
Cooling capa	Cooling capacity		15,400	19,100	24,200	30.700	38,200
cooming capa	City	kW	4.5	5.6	7.1	9.0	11.2
Casing					Galvanised Steel Plate		
Airflow rate (H/L)		m³/min	15/12	19/16	24/20	30/25	34/29
		cfm	530/424	671/565	847/706	1059/883	1200/1024
External statio	pressure	Pa	30(50) *1	30(50) *1	30(50)	30(50)	30(60)
Sound level (H	1/L)	dB(A)	39/37	41/39	42/40	43/41	44/42
Dimensions (H	H×W×D)	mm	300X700X700	300X700X700	300X1000X700	300X1000X700	300X1000X700
Machine weig	jht .	kg	27.0	28.0	35.0	35.0	36.0
	Liquid (Flare)		6.4	6.4	9.5	9.5	9.5
Piping connections	Gas (Flare)	mm	12.7	12.7	15.9	15.9	15.9
COMICCIONS	Drain			VP25 (Exte	rnal Dia, 32/Internal Dia, 2	5)	

^{★ 1} Maximum static pressur

Ceiling Mounted Duct Type



MODEL		FXMQ170NVE6	FXMQ200NVE6	FXMQ250NVE6				
Power supply				1-phase, 220, 240 V/220 V, 50/60	Hz			
Cooling capa	city	Btu/h	65,800	76,400	95,500			
kW		19.3 22.4		28				
Casing				Galvanised steel plate				
A: () . (11/1)		m³/min	58/50	65/58	80/73			
Airflow rate (I	п/ L)	cfm	2,047/1,765	2,295/2,047	2,825/2,578			
External static pressure		Pa	100-140* ²	100-200*2	190-270* ²			
Sound level (H/L) 220V		dB(A)	45/42 47/45		49/47			
Dimensions (H	l×W×D)	mm	440x1,190x1,090	440x1,190x1,090	440x1,490x1,090			
Machine weight		kg	110	110	130			
	Liquid (Flare)		ø 9.5	ø 9.5	ø 9.5			
Piping	Gas (Flare)	mm	ø 19.1	ø 19.1	Ø 22.2			
connections Drain			External Dia 32					

Wall Mounted Type

	MODEL		FXAQ20ARVM	FXAQ25ARVM	FXAQ32ARVM	FXAQ40ARVM	FXAQ50ARVM	FXAQ63ARVM		
Power supply					1-phase, 220-240	0 V/220 V, 50/60 H	lz			
Cooling capa	rity	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200		
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1			
Casing			White (N9.5)							
A: (1 //	1/1)	m³/min	7.5/4.5	9/5	11/5.5	13/9	15/12	19/14		
Airflow rate (I	-1/L)	cfm	265/159	318/177	388/194	459/318	530/424	671/494		
Sound level (H	I/L)	dB(A)	35/31	36/31	38/31	39/34	42/37	47/41		
Dimensions (H	l×W×D)	mm	298x929x258	298x929x258	298×929×258	298x929x258	298x929x258	298x929x258		
Machine weig	ht	kg	13	13	13	13	13	13		
	Liquid (Flare)		ф6.4	ф6.4	ф6.4	ф6.4	ф6.4	ф9.5		
Piping connections	Gas (Flare)	mm	ф12.7	φ12.7	ф12.7	φ12.7	ф12.7	ф15.9		
COMINCENDING	Drain VP13 (External Dia, 18/Internal Dia, 13)									

Outdoor Units

VRV X Cooling Only



	RXQ6ARYFK	RXQ8ARYFK	RXQ10ARYFK	RXQ12ARYFK	RXQ14ARYFK	RXQ16ARYFK			
Capacity Class	6HP	8HP	10HP	12HP	14HP	16HP			
Power supply			380-415V / 3N /50 Hz, 400V / 3N / 60Hz						
Cooling Capacity	T1	Btu/h	54,600	76,450	95,550	114,350	136,500	153,550	
		kW	16.0	22.4	28.0	33.5	40.0	45.0	
	T3	Btu/h	50,000	64,000	89,000	92,500	116,400	118,000	
		kW	14.7	18.8	26.1	27.1	34.1	34.6	
Power Input	T1	W	4,500	6,600	7,900	9,500	11,300	13,150	
	T3	W	5,100	6,500	9,400	10,400	12,500	12,500	
Power Input ODU	T3	W	4,610	5,830	8,640	9,540	11,520	11,370	
EER	T1	Btu/h W	12.13	11.58	12.09	12.04	12.08	11.68	
	T3	Btu/h W	9.80	9.85	9.47	8.89	9.31	9.44	
Combination Ratio		•			50-1	30%			
Casing Color			lvory White						
	Type		Hermitically Sealed Scroll Compressor						
Compressor	No of		1	1	1	1	2	2	
	Compressor		'						
Air Flow rate		m3/min	178	178	257	257	297	297	
	Н	mm	1,657	1,657	1,657	1,657	1,657	1,657	
Dimension	W	mm	930	930	1,240	1,240	1,240	1,240	
	D	mm	765	765	765	765	765	765	
Machine weight		kg	165	175	220	220	285	285	
Sound Level		dBA	56	57	60	60	65	65	
Operation range	Cooling	CDB	10 ~ 52						
Refrigerant	Туре		R410A						
	Charge	kg	5.9	7.3	9.0	9.3	11.7	11.8	
Dining Connection	Liquid	mm	9.5	9.5	12.7	12.7	15.9	15.9	
Piping Connection	Gas	mm	19.1	22.2	28.6	28.6	28.6	28.6	





Cooling Only

CONTROL **SYSTEMS**

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

Individual Control Systems for VRV Indoor Units

BRC1H81W7 / BRC1H81S7

Madoka wired remote controller for VRV



A complete redesigned controller focused on enhancing user experience

- > Sleek and elegant design
- → Intuitive touch-button control
- > Two display options: standard and detailed
- Direct access to basic functions
 (on/off, set point, mode, target value)
- (on/off, set point, mode, target values, fan speed, louvres, filter icon & reset, error & code)
- > Two colours to match any interior
- > Compact, measures only 85 x 85 mm
- > Real time clock with auto update to daylight saving time
- > Equipped with a buzzer

Hotel application features

- > Energy saving through key card, window contact integration and set point limitation (BRP7A*)
- > Flexible setback function ensures room temperature remains within comfortable limits to ensure guest comfort



Advanced settings can be easily done via your smartphone

A series of energy saving functions that can be individually selected

- > Temperature range limit
- > Setback function
- > Presence & floor sensor setting (available on round flow and fully flat cassette)
- > kWh indication
- > Set temperature auto reset
- → Off timer

Temperature range limit avoids excessive cooling

Save energy by constraining the lower temperature limit in cooling

Other functions

- Up to 3 independent schedules can be set, so the user can easily change the schedule himself throughout the year (e.g. summer, winter, mid-season)
- > Possibility to individually restrict menu functions

Individual Control Systems for VRV Indoor Units

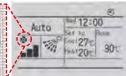
Navigation remote controller (Wired remote controller) (Optional)

Clear display

• Dot matrix display

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





Backlight display

Backlight display helps operating in dark rooms.

Simple operation

Large buttons and arrow keys

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





• Guide on display

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

Energy saving

BRC1E63*

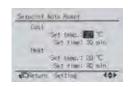
Setpoint range set

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



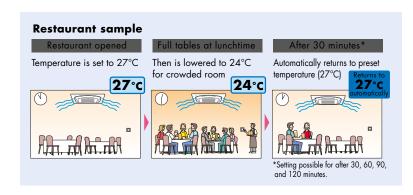
Setpoint auto reset

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



• Off timer

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



*BRC1E63 not applicable in UAE

Advanced Control Systems for VRV Indoor Units

Intelligent Manager

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



DCM601A51

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

Individual air-conditioning control

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







DALI-compatible

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





Air-conditioning control for large spaces

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





Building equipment control

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





For Energy Saving & Comfort

Intelligent Touch Manager maximises the advantages of VRV features

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

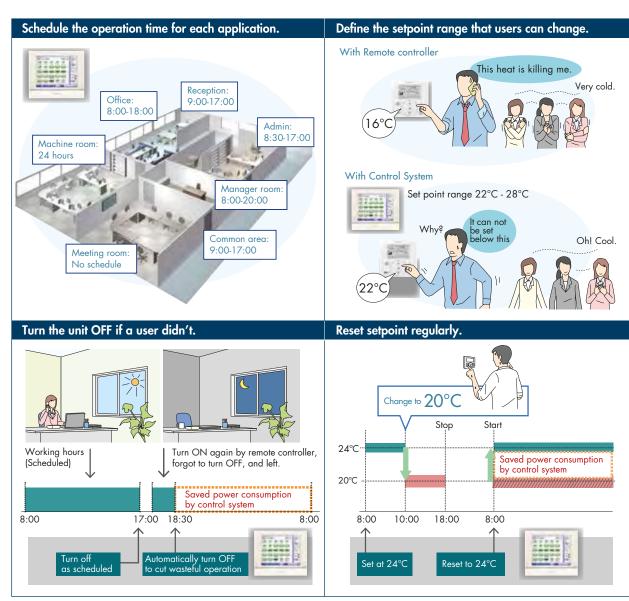
The 10.4" LCD touch screen is easy to use with three different screen views to include the floor plan layout view, icon view and list view and menus for system configurations.

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

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

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

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



Tenant Management (PPD Option)

Reporting the power consumption of **VRV** system for each tenant

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

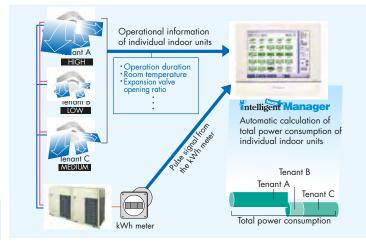
The energy consumption is proportionally calculated for each indoor unit. The data can be used for energy management and calculation of air conditioning usage fees for respective tenants.

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

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

It is easy to output PPD data.

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



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

Air Conditioning Network Service System

Daikin Offers a Variety of Control Systems

Convenient controllers that offers more freedom to administrators



Intelligent Controller

Ease of use and expanded control functions

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

Connect VRV system to your BMS via BACnet® or LONWORKS®

Compatible with BACnet® and LONWORKS®, the two leading open network comunication protocols, Daikin offers interfaces that provide a seamless connection between VRV system and your BMS.

Dedicated interfaces make Daikin air conditioners freely compatible with open networks



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

DMS502B51



Notes: 1. BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

 $2.\, \mathsf{LONWORKS}^{\circledcirc} \, \mathsf{is} \, \mathsf{a} \, \mathsf{trademark} \, \mathsf{of} \, \mathsf{Echelon} \, \mathsf{Corporation} \, \mathsf{registered} \, \mathsf{in} \, \mathsf{the} \, \mathsf{United} \, \mathsf{States} \, \mathsf{and} \, \mathsf{other} \, \mathsf{countries}.$

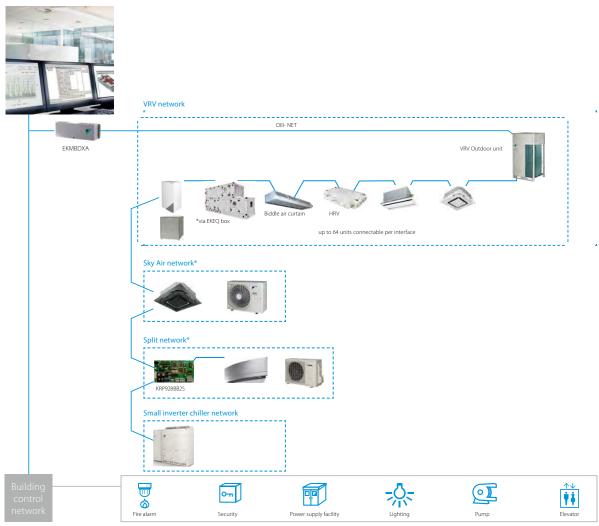
DIII-net Modbus interface

EKMBDXA

Integrated control system for seamless connection between Split, Sky Air, VRV and small inverter chillers and BMS systems

- > Communication via Modbus RS485 protocol
- > Detailed monitoring and control of the VRV total solution
- > Easy and fast installation via DIII-net protocol
- > As the Daikin DIII-net protocol is being used, only one modbus interface is needed for a group of Daikin systems (up to 10 outdoor units systems).





* Additional centralized controller might be required. For more information contact your local dealer

			EKMBDXA7V1		
Maximum number of connectable indoor units			64		
Maximum number of connectable outdoor units			10		
Communication	DIII-NET - Remark		DIII-NET (F1F2)		
	Protocol - Remark		2 wire; communication speed: 9600 bps or 19200 bps RS485 (modbus)		
	Protocol - Type				
	Protocol - Max. Wiring length	m	500		
Dimensions	HeightxWidthxDepth	mm	124x379x87		
Weight	<u>.</u>	kg	2.1		
Ambient temperature - operation	Max.	°C	60		
	Min.	°C	0		
Installation			Indoor installation		
Power supply	Frequency	Hz	50		
	Voltage	V	220-240		