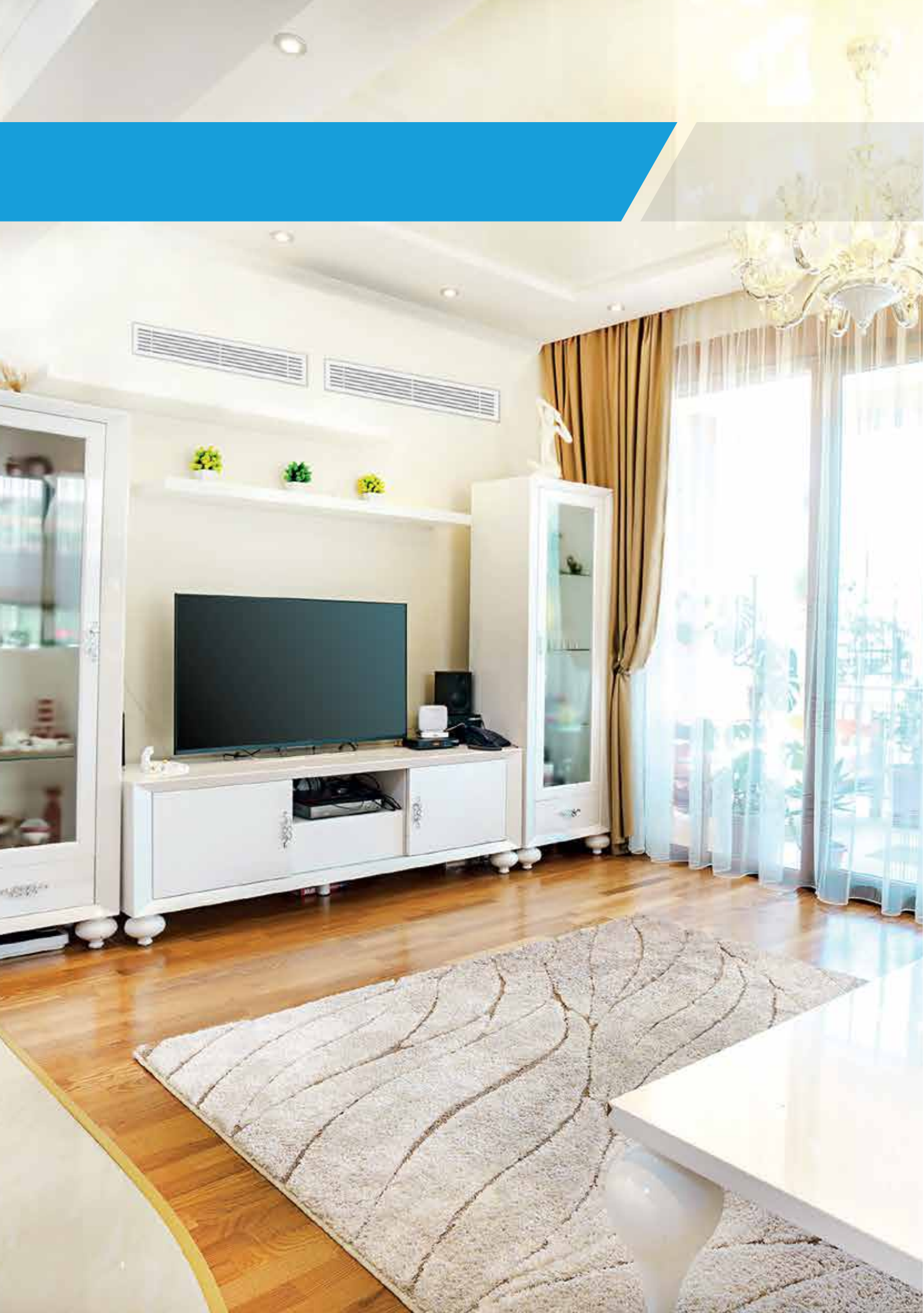
DAIKIN

VRV APT

NEW MINI VRV SERIES MADE FOR APARTMENTS AND SMALL PREMISES



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ABOUT DAIKIN

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

As World's leading air conditioning company, we are committed to delivering air-conditioning solutions that enhance the quality of life all around the World. At Daikin Industries Ltd., a diverse multinational company, active in air-conditioning, chemicals and oil hydraulics, was established in 1924. With headquarters in Osaka, Japan, our Daikin family has more than 67,000 members, working across 80 production base units and 208 consolidated subsidiaries worldwide. As the world's sole manufacturer that develops a long line of products from refrigerants to air-conditioners, we advocate comfortable living on the strength of advanced technologies.

We are present in 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.

EXPLORING NEW R&D FRONTIERS

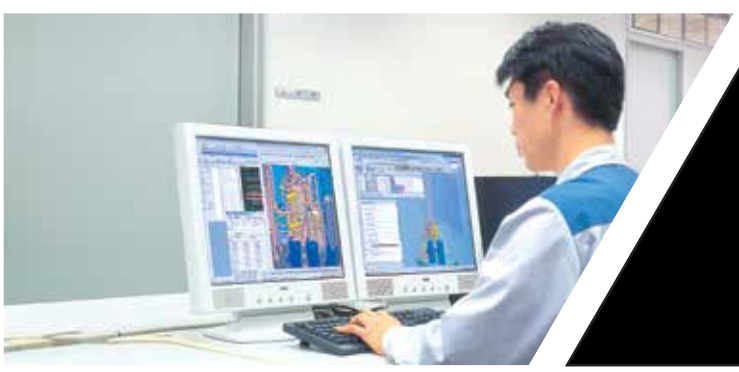
At Daikin, we are creating value through innovative technologies. As a global industry front-runner, we are carrying out research and development on the world's most advanced air conditioning technology. Our strong R&D edge has helped us create futuristic products that enrich people's lives.

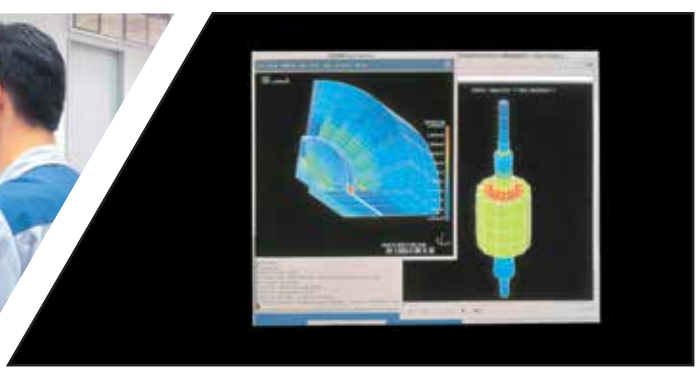
Formation of a three-division system of research, IT, and development to support our superior products. To create more advanced functions and new value, we have instituted specialized R&D divisions: the 'Environmental Technology Research Laboratory' and the 'Solution Product Development Centre'.

DEVELOPMENT
Product Development Group

RESEARCH
Environment Technology
Research Laboratory

IT
Solution Product
Development Centre





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

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

VRV Apt

INTRODUCTION

VRV Apt is the ideal air conditioning system as it replaces multiple outdoor units with only one unit maintaining the picturesque view of the building. VRV Apt is ideally suited for residences as it offers a range of indoor units, which can be connected with a centralized outdoor unit.

NEW LIFE STYLE

Redefining Home Air Conditioning

A complete solution that provides Cooling/Heating, Comfort, Control and Convenience in one single system.

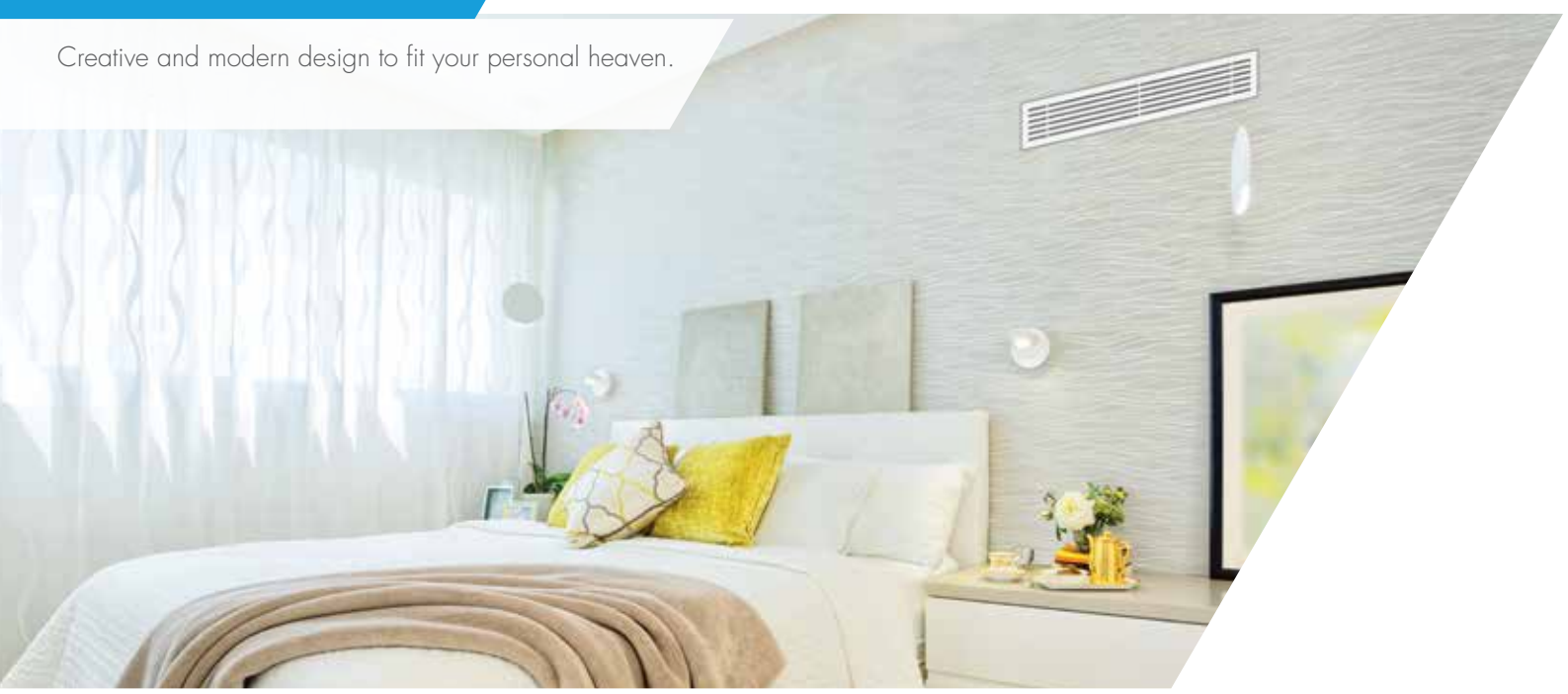
CONCEALED

Hidden elegance to complement your beautifully designed home interiors.

VRV Apt

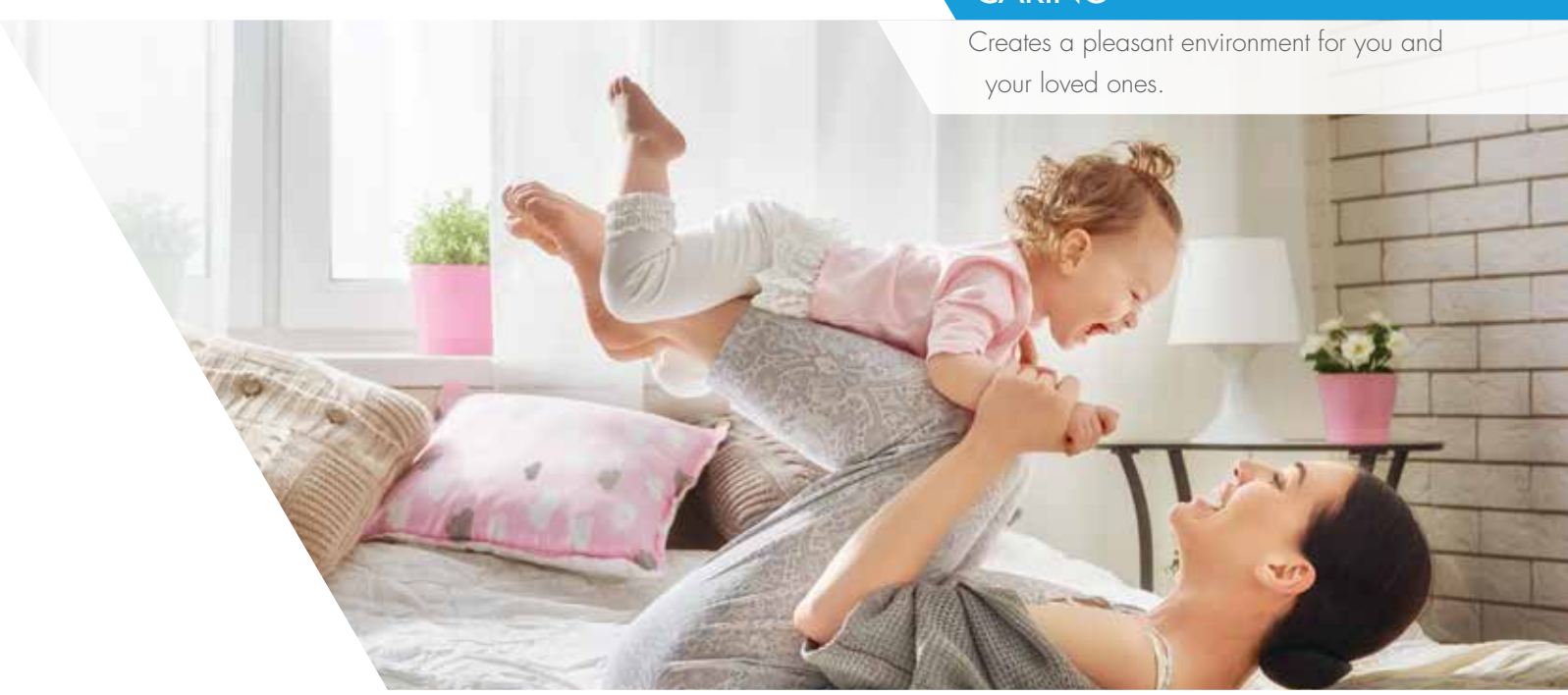
CONTEMPORARY

Creative and modern design to fit your personal heaven.



CARING

Creates a pleasant environment for you and your loved ones.



COOLING SEASONAL PERFORMANCE FACTOR

NOMINAL EFFICIENCY VS. SEASONAL EFFICIENCY IN LINE WITH REAL-LIFE PERFORMANCE

Cooling Seasonal Performance Factor

Currently, the energy efficiency of cooling devices is measured in artificial and standardized conditions. For air conditioners, this is done at a constant temperature of 46 °C or 35 °C and at full cooling capacity. This results in T1 & T3 energy efficiency (EER), which is representing only two points to conclude on Energy performance.

In other markets, like in the US and Europe, seasonal performance is measured with IPLV, SEER or ESEER calculations based on real-life conditions. However, these calculation methods have not been adopted for high Ambient or hot climates. In order to correct this situation, a more realistic calculation method called Cooling Seasonal Performance Factor for Hot Climate $CSPF_{T3}$ has been developed by the ISO Refrigeration and Air-Conditioning Subcommittee (SC6) for the testing and rating of air conditioners and heat pumps. This is the standard ISO 16358 -1 Amendment 1 issued in 2019 for the hot T3 climate zones.

The implementation of the Seasonal Efficiency calculation reflects a more realistic energy efficiency value through the entire cooling season at hot climate conditions compared to the currently used EER value.

THE CALCULATION FOLLOWS THE BELOW CONSIDERATIONS

- Use of a high ambient climate weather bin for cooling instead of one nominal temperature
- Considering operation at partial capacity instead of full capacity

What is $CSPF_{T3}$?

(Cooling Seasonal Performance Factor for Hot Climate $CSPF_{T3}$) is the testing and rating of air conditioners as per the ISO 16358 -1 Amendment 1 issued in 2019 for T3 hot climate zones and takes into consideration the bin hours reflecting high ambient conditions.

UAE Regulatory body ESMA has already adopted this standard and enforced all VRF manufacturers to comply with it's Minimum Energy Performance Standards (MEPS) that ensure the seasonal efficiency of the buildings

How is $CSPF_{T3}$ expressed?

It is expressed as the $CSPF_{T3}$ value **(Cooling Seasonal Performance Factor for Hot Climate $CSPF_{T3}$)** It is defined as the ratio of the total annual amount of heat that the equipment can remove from the indoor air when operating for cooling in active mode to the total annual amount of energy consumed by the equipment during the same period.

$$CSPF_{T3} = \frac{\text{Cooling Seasonal Total Load @ T3 ISO weather bin}}{\text{Cooling Seasonal Energy Consumption @ T3 ISO weather bin}}$$

BENEFITS OF $CSPF_{T3}$

The implementation of seasonal efficiency will provide end users with a fair comparison of different equipment based on realistic year-round efficiency which will lead to:

- Reduced energy consumption
- Reduced CO2 emission
- Reduced electricity bills

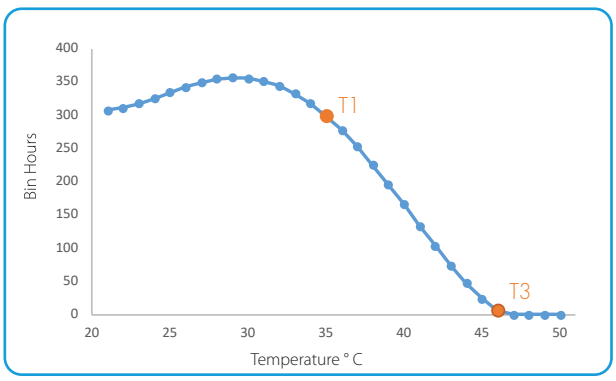
PIONEERING IN INNOVATION AND ENVIRONMENTAL RESPONSIBILITY

For Daikin, seasonal efficiency brings together two core ambitions: pushing for innovation and reducing the environmental footprint of our products. Being the first in the industry to design equipment based on optimal seasonal efficiency values, Daikin is once again pioneering high-performance cooling products that lower the impact on the environment and your wallet.

Benefits of Seasonal Efficiency Vs. Nominal Efficiency

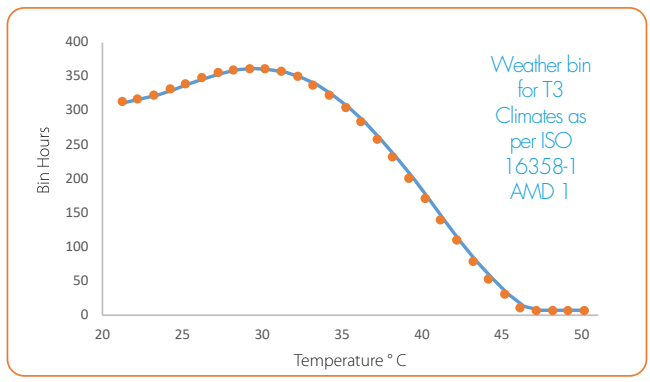
ENERGY EFFICIENCY RATIO

TEMPERATURE



Energy Efficiency Ratio rating is based on one outdoor Ambient Temperature condition (T1 or T3)

COOLING SEASONAL PERFORMANCE FACTOR



Cooling Seasonal Performance Factor is based on the Hot Climate Weather bin as per ISO 16358-1 AMD1

EFFICIENCY

$$EER_{@T1\text{ or }T3} = \frac{\text{Cooling Capacity}_{@T1\text{ or }T3}}{\text{Power Input}_{@T1\text{ or }T3}}$$

$$CSPF_{T3} = \frac{\text{Cooling Seasonal Total Load}_{@T3\text{ ISO Weather bin}}}{\text{Cooling Seasonal Energy Consumption}_{@T3\text{ ISO Weather bin}}}$$

NOMINAL EFFICIENCY gives an indication on how efficient an air conditioner operates at nominal conditions. 100% capacity performance is used to measure EER

$CSPF_{T3}$ gives an indication on how efficient an air conditioner operates over an entire cooling season. Variable or seasonal performance close to real life is used and not 100% capacity performance.

For example, 4 HP Daikin VRV Apt Unit (RXYMQ4AVMK) can be evaluated using below mentioned efficiencies:

T3 EER: 10.7 Btu/h/W
3.14 W/W

$CSPF_{T3}$: 19.8 Btu/h/W
5.8 W/W

When the new ISO standard for hot climate was published, Daikin has resolutely chosen for early implementation of this new legislation and started testing all products for seasonal efficiency. This commitment to pioneering the implementation of seasonal efficiency is a practice we observe every day. Today, Daikin leads the way towards more efficient and cost-effective comfort solutions. All Daikin products - residential, commercial, as well as industrial - are seasonal-efficient, reducing energy and costs the smart way

APPLICATION

CENTRALIZED HOME AIR CONDITIONING

In a conventional split air-conditioning system, a house requires same number of outdoor units and indoor units. For example, a place with four rooms will have four indoor units and four outdoor units.

An apartment or a house that does not have sufficient space will find difficult to accommodate numerous outdoor units. Even if the outdoor units are somehow crowded together they will consume a lot of space, look cluttered and ruin the aesthetics of the house.

VRV Apt replaces all the outdoor units of the house with just one outdoor unit. A total of 9 indoor units can be connected to one outdoor unit to create the space you have always desired. Also you have different styles of indoor units like duct type and wall mounted type that can be connected with a single outdoor unit. Furthermore, actual piping length of up to120 meters coverage of widespread spaces is ensured.

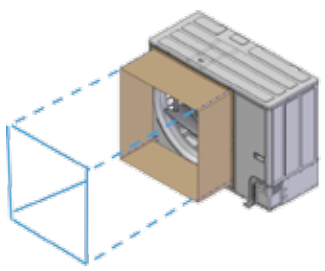
OUTDOOR UNIT CAN BE INSTALLED ON A BALCONY

The trunk-shaped outdoor unit can easily be installed on a balcony, realizing complete system installation within each floor. The compact outdoor unit can be hanged on the wall eliminating the need for floor space, which enables more useful utilisation of the space on the building rooftop.

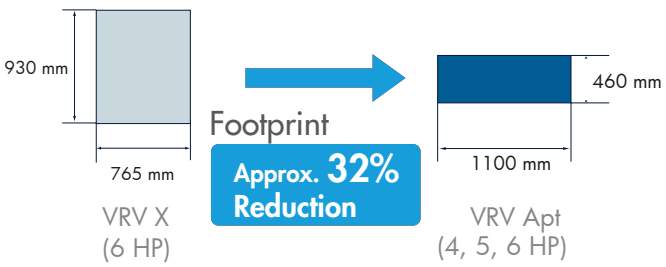
To hide outdoor units with the fence of the balcony or the outer wall of the Roof, the outdoor unit's height needs to be 1m or lower. VRV Apt has significant reduction in height (870mm only) thanks to 1 fan design. Now, the height including the frame for installation has been realized to be 1 m or lower, enabling installation of outdoor units without damaging scenery.

HIGH EXTERNAL STATIC PRESSURE

VRV Apt outdoor unit can achieve high external static pressure up to 40 Pa, ensuring the efficient heat dissipation and stable operation in case of indoor or Louver installation or using ducts



SPACE SAVING



VRV X
(6 HP)

VRV Apt
(4, 5, 6 HP)

Volume

Approx. **65%** reduction

VRV X
(6 HP)

VRV Apt
(4, 5, 6 HP)

DUPLEX INSTALLATION

Low height casing design of 870 mm for all models saves roof space by up to 41% as compared to a standard two-fan Mini VRV series due to possibility of stacked installation of two VRV outdoor units using special **Daikin Duplex Mounting Bracket (option)**

Variety of installation options (in limited roof space, in mechanical floor, in balcony) makes VRV Apt ideal product for high-risked buildings where big quantity of DX Outdoor Units need to be distributed in limited spaces.

MAIN FEATURES

RELIABILITY
USER COMFORT
DESIGN FLEXIBILITY
ENERGY EFFICIENCY
LOW NOISE
CONTEMPORARY
EASY INSTALLATION

OUTDOOR LINE-UP

6 models: Outdoor unit can be selected from six models to provide the power that suits your needs. The trunk-shaped outdoor unit can be neatly installed outside.

Capacity(HP)

Model Name	Product Image	4	5	6	8	10
RXYMQ-AVMK Side Discharge, Single Fan (50/60 Hz) 1 phase power supply		●				
RXYMQ-AYFK Side Discharge, Single Fan (50/60 Hz) 3 phase power supply		●	●	●		
RXYMQ Side Discharge, Double Fan (50/60 Hz) 3 phase power supply					● Coming soon	● Coming soon

SINGLE-PHASE POWER SUPPLY

The 4 HP Outdoor Unit, as well as indoor units, operate on a single-phase power supply. This enables VRV Apt adaptation at residences where 3 phase power supply is not available.

RELIABILITY

IMPROVED RELIABILITY AT HIGH AMBIENT TEMPERATURES

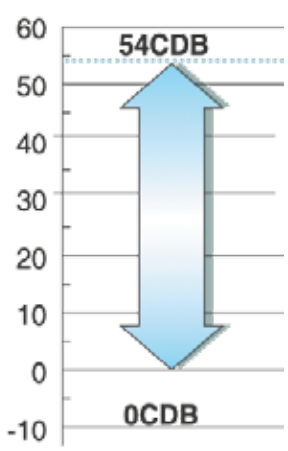
Refrigerant cooling technology ensures the stability of PCB temperature & improves reliability at high ambient temperatures. It is possible to cool the inverter power module stability even at high ambient temperature. This helps to keep air-conditioning capacity and also ensures efficient and reliable operation. In addition to stable cooling, Refrigerant Cooling Circuit prevents PCB board from dust, water, and small animal entering, making this design solution ideal for hot desert climate compared to traditional air-cooled PCB Boards.

Additional Coating is applied to PCB for strengthening to cope with high ambient environment & to ensure longer life of PCB.

Wide Area Heat Exchanger is designed to ensure delivery of required capacity at high ambient conditions. Heat Exchanger Fins are covered with Blue Film which consists of corrosion resistance layer covered with hydrophilic surface treatment coating to withstand harsh environment conditions.*

WIDE OPERATION TEMPERATURE RANGE

The versatile operation range of the VRV Apt system works to reduce limitations on installation locations. The operation temperature range for heating goes all the way down to -20C, while cooling can be performed with outdoor temperatures as high as 54C. Both these achievements are due to the adoption of a high-pressure dome-type compressor which is specially designed for operation in extreme ambient conditions



Note

* In case units are located in coastal areas, addional coating will be required.
Contact your local distributor for more details about available options.

ENERGY EFFICIENCY

SWING COMPRESSOR

Thanks to its smooth rotation, the swing compressor decreases friction and vibration. It also prevents leakage of refrigerant gas during compression. These advantages provide quiet and efficient operation.

HIGH COP DURING BOTH COOLING AND HEATING OPERATIONS

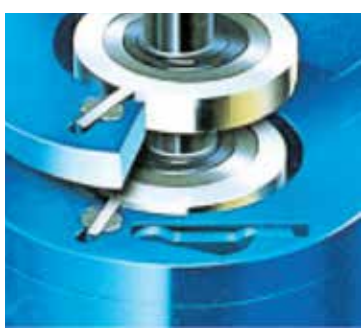
One of the top features of VRV Apt is its energy efficiency. It achieves high COP during cooling and heating operations especially at part load.

COMPRESSOR EQUIPPED WITH RELUCTANCE DC MOTOR

VRV Apt Outdoor Units are equipped with the Reluctance DC motor for the compressor. The Reluctance DC motor uses 2 different types of torque, neodymium magnet*1 and reluctance torque*2. This motor can save energy because it generates more power with a smaller electric power than an AC or conventional DC motor.

*1 A neodymium magnet is approximately 10 times stronger than a standard ferrite magnet.
*2 The torque created by the change in power between the iron and magnet parts.

Note: Data are based on studies conducted under controlled conditions at a Daikin laboratory using Daikin products.

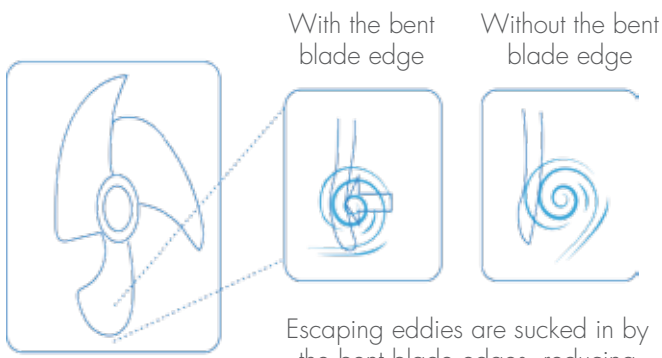


Daikin was presented 32nd Chairman's award by the Japan Society for the promotion of the machine industry for swing compressor

LOW NOISE

SMOOTH AIR INLET BELL MOUTH AND AERO SPIRAL FAN

Guides are added to the bell mouth intake to reduce turbulence in the airflow generated by fan suction. The Aero Spiral Fan features fan blades with bent blade edges, further reducing turbulence.



Escaping eddies are sucked in by the bent blade edges, reducing overall turbulence

NIGHT-TIME QUIET OPERATION FUNCTION

Operation sound level selectable from 3 steps for the night mode

MODE 1 AUTOMATIC MODE

Set on the outdoor PCB. The time of maximum temperature is memorized. The low operating mode will become active 8 hours*1 after the peak temperature in the daytime, and operation will return to normal 10 hours*2 after that. The operation sound level for the night mode can be selected from 47 dB(A) (Step 1), 44 dB(A) (Step 2), and 41 dB(A) (Step 3).

MODE 2 MANUAL MODE

Starting time and ending time can be input. (An external control adaptor for outdoor unit, DTA104A61 or DTA104A62, and a locally obtained timer are necessary.)

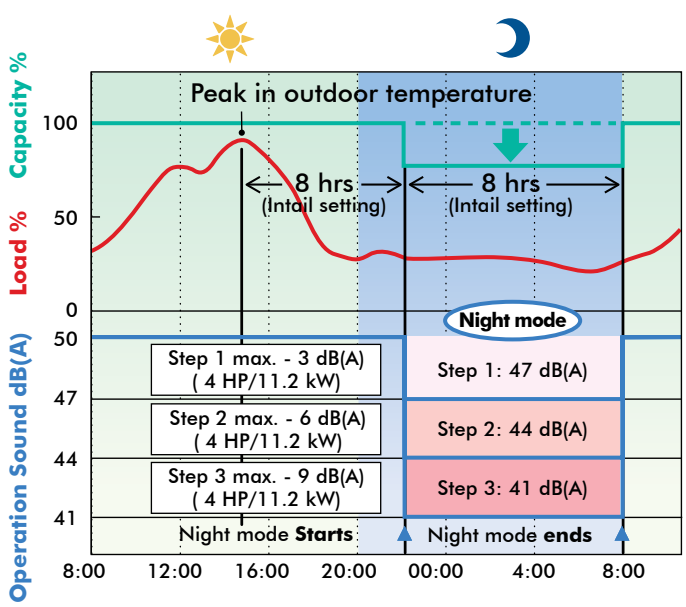
MODE 3 COMBINED MODE

Combinations of modes 1 and 2 can be used depending on your needs.

*1. Initial setting. Can be selected from 6, 8 and 10 hours.

*2. Initial setting. Can be selected from 8, 9 and 10 hours.

Mode 1 Automatic mode



Note:
- This function is available in setting at site.
- The relationship of outdoor temperature (load) and time shown in the graph is just an example.

*The capacity reduction rate differs depending on the operation sound level step selected.

EASY INSTALLATION

BRAZING FREE INSTALLATION

Flare connection based header pack and Daikin Gas Tight Joints eliminate the need for brazing resulting in quick, safe & quality installation.

HEADER PACK

DAIKIN GAS TIGHT JOINTS (DGT)

AUTOMATIC TEST OPERATION

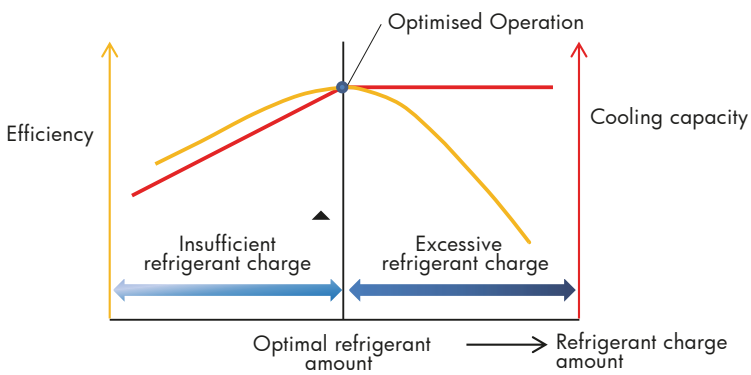
Simply press the test operation button and the unit performs an automatic system check, including wiring, shutoff valves, and sensors. The results are returned automatically after the check finishes.

AUTOMATIC REFRIGERANT CHARGE FUNCTION

Contribute to optimized operation efficiency, higher quality and easier installation

Optimized operation efficiency

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



Higher quality and easier installation.

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

EASY TO HANDLE

In addition, low height makes the center of gravity of the product positioned lower, leading to easier handling and easier delivery without blocking the workers' view. Less than 120kg, which can be carried by two people

DESIGN FLEXIBILITY

PIPING LENGTH

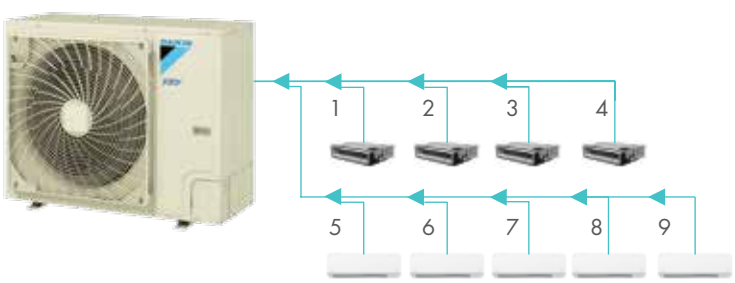
VRV Apt series offer broad design flexibility with long refrigerant piping lengths and multiple indoor unit combinations, which provides generous freedom for home design both inside and outside.

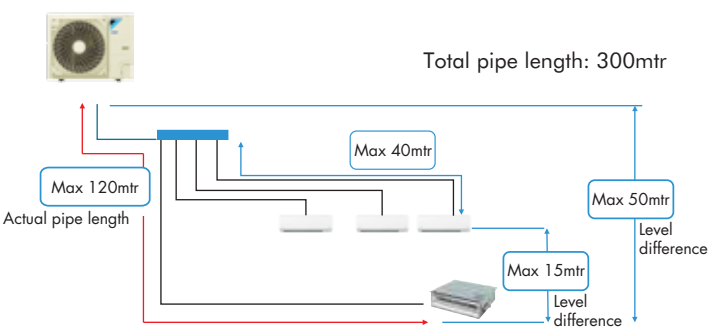
AS MANY AS 9 INDOOR UNITS CAN BE CONNECTED TO A SINGLE OUTDOOR UNIT

Multiple indoor unit combinations are possible. As many as 9 indoor units can be connected to a single outdoor unit, making the VRV Apt a remarkably versatile system.

LONG PIPING DESIGN POSSIBLE

The VRV Apt provides a long piping length possibility of 120 m, with a total piping length of 300 m. If the outdoor unit is installed above indoor units the level difference can be up to a maximum of 50 m. These generous allowances facilitate an extensive variety of system designs.





MAX. 9 UNITS

- Max. 6 indoor units for a 4 HP installation
- Max. 8 indoor units for a 5 HP installation
- Max. 9 indoor units for a 6 HP installation

TOTAL PIPING LENGTH MAX. 300 M

- The level difference between outdoor and indoor unit is 50 m
- Maximum piping length between the indoor unit and the first branch is 40 m.

CONTEMPORARY

CENTRALIZED AIR CONDITIONING

VRV Apt offers centralized Lifestyle Air Conditioning solutions wherein one Outdoor unit can be connected with multiple Indoor units. This system has flexibility of connceting different types of Indoor units in the same circuit. The suitable Indoor unit that blends with interiors and fulfill cooling requirement can be selected.

CONCEALED & SLEEK IDU DESIGN

■ NEW LIFE STYLE

Technology meets Design

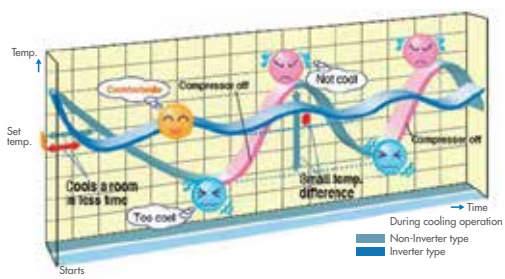
HIDE AND SLEEK

The units are compact and slim enough to fit into any false ceiling, giving you more space and flexibility to create the perfect home you desire. Now, function and aesthetics can live in beautiful harmony.

USER COMFORT

PRECISE TEMPERATURE CONTROL

The inverter technology provides very close tolerance of room temperature in the range of +-0.5 degree Celcius compared to a conventional system where it is as high as +- 2 degree Celcius. This reduces temperature fluctuation resulting in better human comfort.



NIGHT-TIME QUIET OPERATION

Quietness is an important feature of VRV Apt system as it provides luxurious comfort. To reduce noise and realize comfortable operation, The latest technologies and features are applied to the indoor units as well as outdoor unit.

INDOOR UNIT LINEUP

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

Type	Model Name	Capacity Range HP	0.6	0.8	1	1.25	1.6	2	2.5	3.2	4	5	6
		Capacity Index	15	20	25	32	40	50	63	80	100	125	140
Wall Mounted	FXAQ-ARVM			●	●	●	●	●	●				
Ceiling Mounted Cassette Round Flow	FXFSQ-ARV1				●	●	●	●	●	●	●	●	● NEW
Slim Ceiling Mounted Duct	FXDQ-PDVM			●	●	●							
	FXDQ-NDVM						●	●	●				
Low Static Concealed Ceiling Duct	FXMQ-ARV1						●	●	●	●	●		
High Static Concealed Ceiling Duct	FXMQ-PBV1						● NEW	●	●	●	●	●	
Medium Static Concealed Ceiling Duct	FXSQ-A2VEB		●	●	●	●	●	●	●	●	●	●	●

Wall Mounted Type

FXAQ-ARVM

Stylish flat panel design harmonized with your interior decor

Ceiling Mounted Cassette Round Flow

FXFSQ-ARV1

Individual flap control allows flexibility to suit every room layout without changing the location of the interior decor

Slim Ceiling Mounted Duct

FXDQ-PDVM

FXDQ-NDVM

Slim design, quiet and static pressure switching

Concealed Ceiling Mounted Duct

FXMQ-PBV1

FXMQ-ARV1

FXSQ-A2VEB

Variety of the units with different external static pressure allow flexible & concealed installation

VRV INDOOR UNITS

WALL MOUNTED

FXAQ20ARVM / FXAQ25ARVM
FXAQ32ARVM / FXAQ40ARVM
FXAQ50ARVM / FXAQ63ARVM

Stylish flat panel design harmonized with your interior decor

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

Low operation sound level dB(A)

FXAQ-ARVM	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
- Five steps of discharge angle can be set by remote controller.
- Discharge angel 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 1,000mm from the bottom of the unit.

VRV INDOOR UNITS

CEILING MOUNTED CASSETTE ROUND FLOW

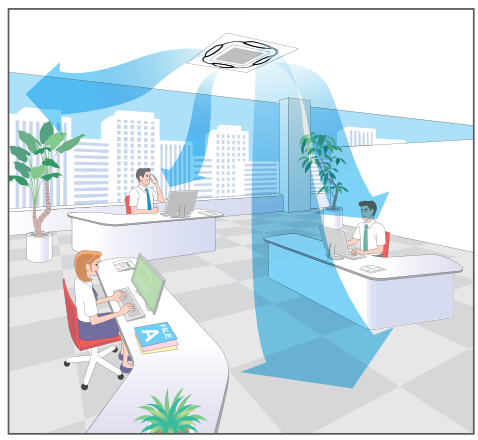
FXFSQ25ARV1 / FXFSQ32ARV1 / FXFSQ40ARV1
FXFSQ50ARV1 / FXFSQ63A RV1/ FXFSQ80ARV1
FXFSQ100ARV1 / FXFSQ125ARV1 / FXFSQ140ARV1

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

CIRCULATION AIRFLOW

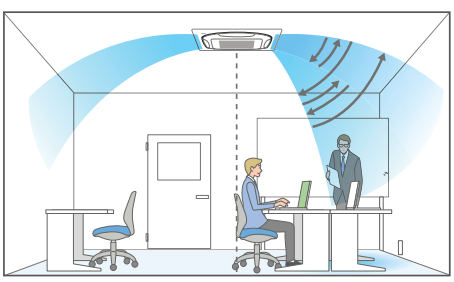
The illustration shows typical air flow. Effectiveness may differ according to room conditions, room size, and distance to walls

INDIVIDUAL AIRFLOW



The illustration shows typical airflow.

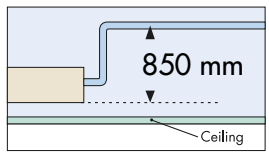
DIRECT AIRFLOW



Optimal air direction by "Auto"

Swing (narrow)

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



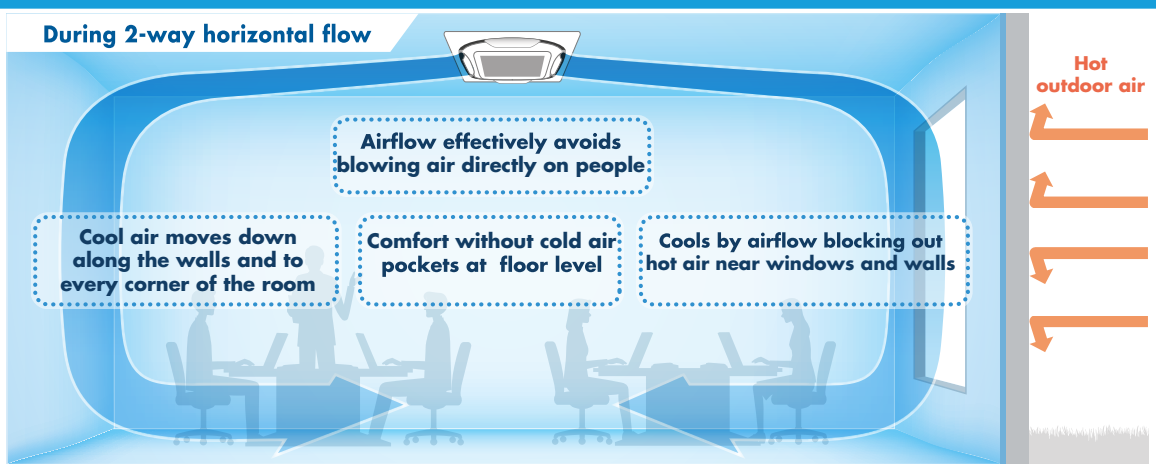
CIRCULATION AIRFLOW

1. Applicable when wired remote controller BRC1E63 & BRC1H is used.

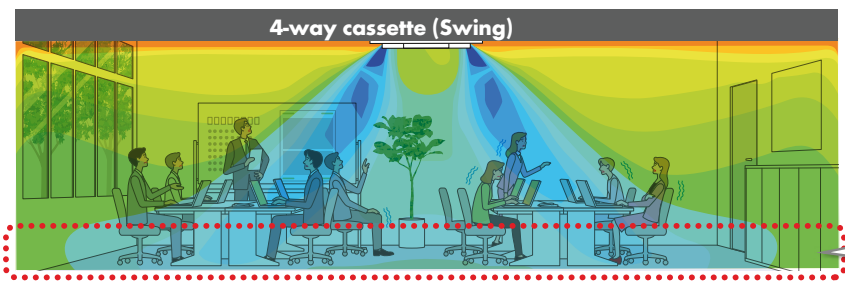
*2. Not applicable when using individual airflow direction control.

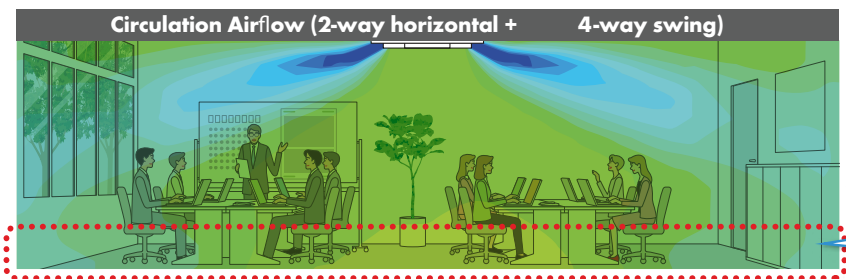
*3. Applicable when wired remote cont

CIRCULATION AIRFLOW COOLS THE ENTIRE ROOM TO DELIVER COMFORT THAT NEVER FEELS COLD.

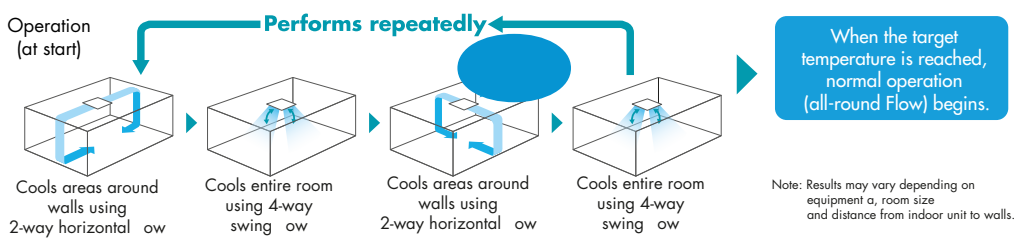


COMFORT TO THE ENTIRE ROOM WITH EVEN TEMPERATURES AND NO COLD AIR POCKETS AT FLOOR LEVEL





CONFIGURATIONS OF CIRCULATION AIRFLOW



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

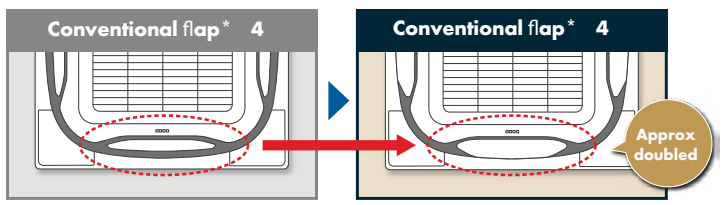
VRV INDOOR UNITS

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 possibl

USE OF NEW WIDE FLAPS (STRAIGHT)

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



*4. FXFQ-S model

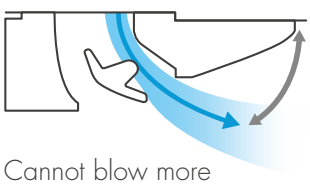
NEW WIDE FLAP CONSTRUCTION INHIBITS CEILING DIRT AND GRIME

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

OPTIMIZING AIRFLOW ANGLE (HORIZONTALLY)

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

CONVENTIONAL FLAP *4



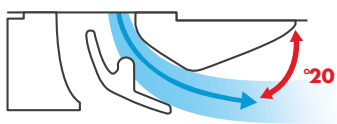
Cannot blow more than 30° horizontal.

*4.FXFQ-S model

°30 air direction

When set to 20° the airflow route get narrow

NEW WIDE FLAP



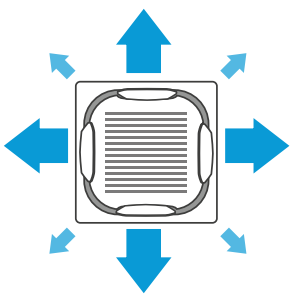
A more horizontal 20° the realized

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

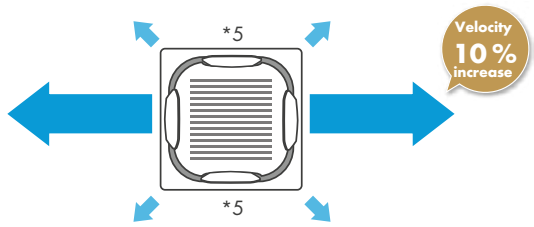
Increased velocity in -2way flow (Strongly)

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

ALL-ROUND FLOW



TWO-WAY FLOW



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

VRV INDOOR UNITS

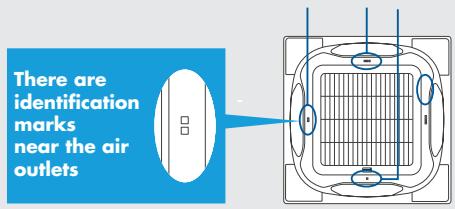
Comfortable air conditioning for all room layouts and conditions

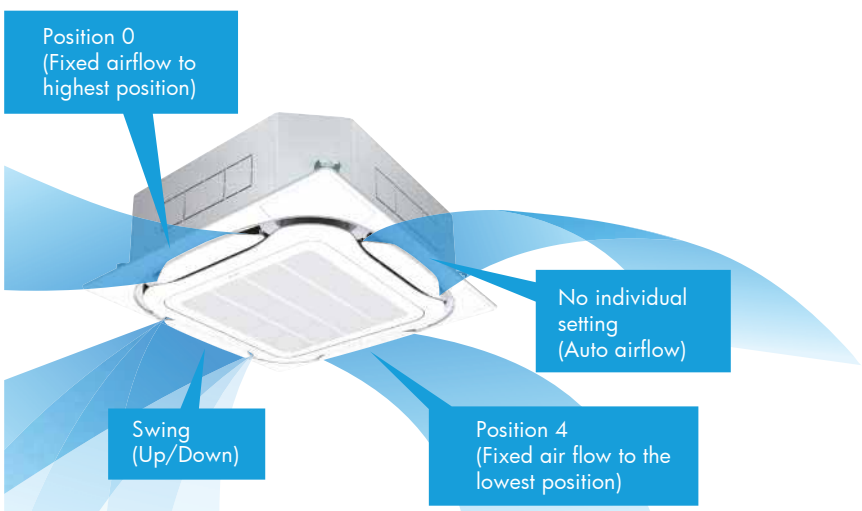
Airflow direction can be individually adjusted for each air discharge outlet to deliver optimal air distribution

*1. Applicable when wired remote controller BRC1363 and BRC1H is used.

Easy setting is possible with a wired remote controller.

Remote controller screen





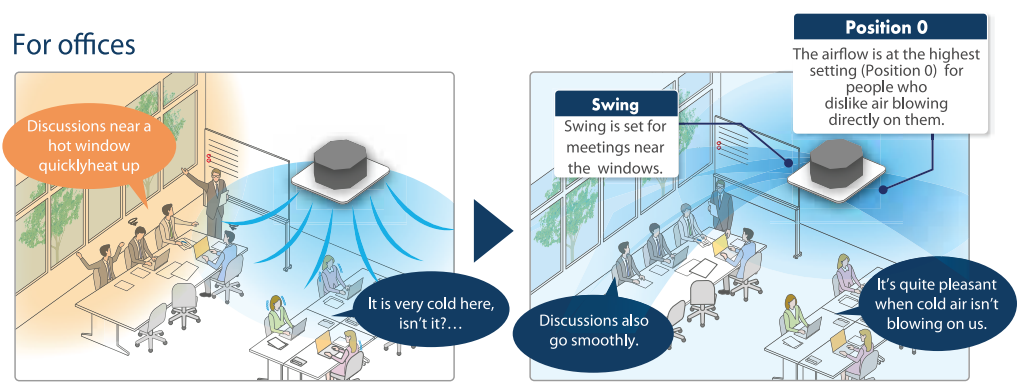
Individual airflow settings

- No individual setting (auto airflow)
- Position 0
- Position 1
- Position 2
- Position 3
- Position 4 (lowest point)
- Swing

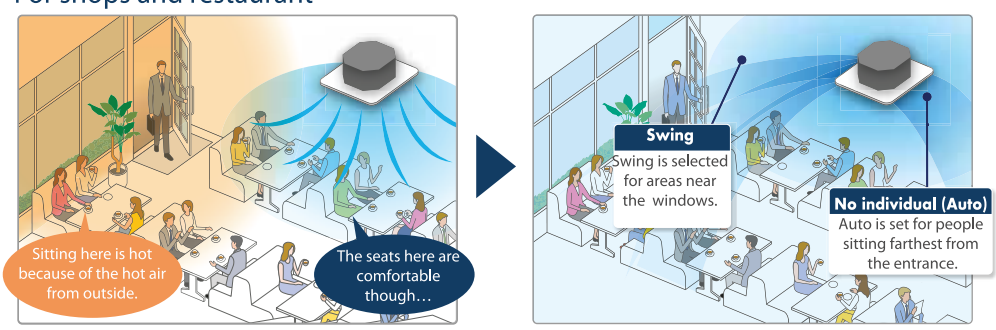
Individual settings are possible as stated above.

WHEN INDIVIDUAL AIRFLOW IS SELECTED, AIRFLOW DIRECTION CAN BE ADJUSTEDTO ROOM LAYOUT.

For offices

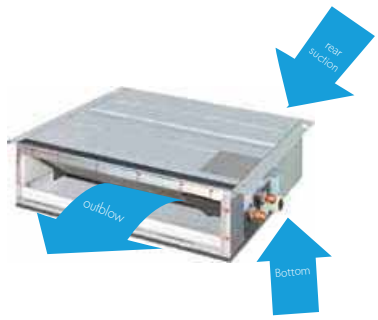


For shops and restaurant



VRV INDOOR UNITS

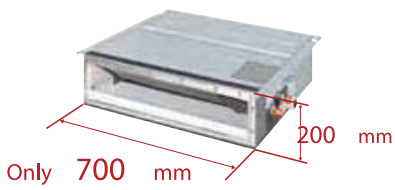
SLIM CEILING MOUNTED DUCT



Slim design, quietness and static pressure switching

FXDQ20PDVM / FXDQ25PDVM / FXDQ32PDVM

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



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

Low operation sound level

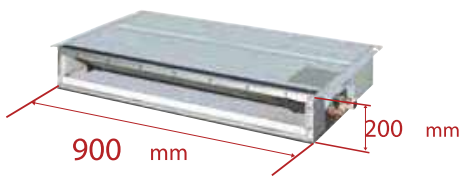
dB(A)

FXDQ PDVM/ NDVM	20/25/32	40	50	63
Sound Level (HH/H/L)	33/31/29	34/32/30	35/33/31	36/34/32

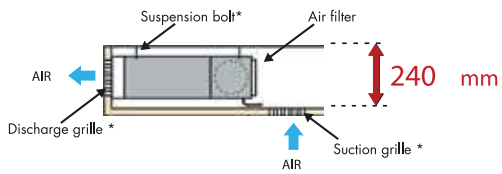
• The values of operation sound level represent those for rear suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).Values are based on the following conditions: FXDQ-PDVM: external static pressure of 10Pa; FXDQ-NDVM: external static pressure of 15Pa.

FXDQ40NDVM /FXDQ50NDVM / FXDQ63NDVM

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



* 1,100 mm in width for the FXDQ63NDVM model

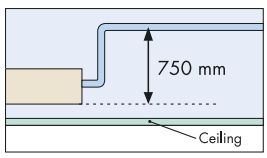


***To be obtained locally**

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

10Pa-30Pa/factory set: 10Pa for FXDQ-PDVM models.
15Pa-44Pa/factory set: 15Pa for FXDQ-NDVM models.

FXDQ - NDVM models are available with a drain pump as a standard accessory



VRV INDOOR UNITS

LOW STATIC PRESSURE CEILING MOUNTED DUCT TYPE

FXMQ40ARV1 / FXMQ50ARV1 /
FXMQ63ARV1 / FXMQ80ARV1 /
FXMQ100ARV1

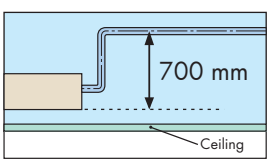
Middle static pressure allows for flexible duct design

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

30Pa-50Pa for FXMQ40ARV1
30Pa-60Pa for FXMQ100ARV1

All models are only 300mm in height, an improvement over the 390mm height of conventional models

Drain pump is equipped as standard accessory with 700mm lift



High airflow rate

Airflow rate is optimized to meet broader spectrum of airflow requirements.

Low operation sound level

(db(A))

FXMQ-ARV1	40	50	63	80	100
Sound Level (H/L)	39/37	41/39	42/40	43/41	44/42

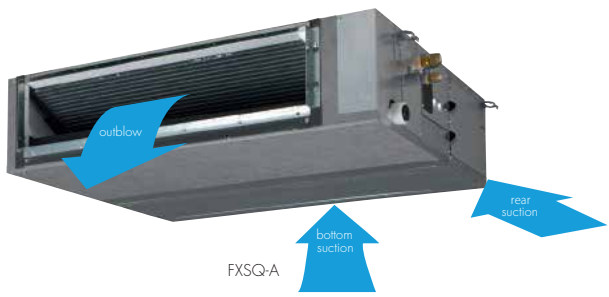
Improved ease of maintenance

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

VRV INDOOR UNITS

MEDIUM STATIC CONCEALED CEILING DUCT

FXSQ15A2VEB / FXSQ20A2VEB / FXSQ25A2VEB
FXSQ32A2VEB / FXSQ40A2VEB / FXSQ50A2VEB
FXSQ63A2VEB / FXSQ80A2VEB / FXSQ100A2VEB
FXSQ125A2VEB / FXSQ140A2VEB



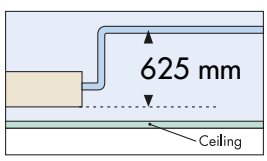
FXSQ-A

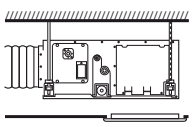
Slimmest yet most powerful medium static pressure unit on the market

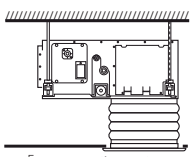
- Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge

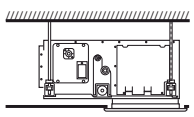
- Quiet operation: down to 25dBA sound pressure level
- Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- Discretely concealed in the wall: only the suction and discharge grilles are visible
- 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- Multi zoning kit allows multiple individually-controlled climate zones to be served by one indoor unit
- Optional fresh air intake
- Flexible installation: air suction direction can be altered from rear to bottom suction and choice between free use or connection to optional suction grilles

Standard built-in drain pump with 625mm lift increases flexibility and installation speed




For free use into a false ceiling


For connecting onto a suction canvas (not supplied by Daikin)

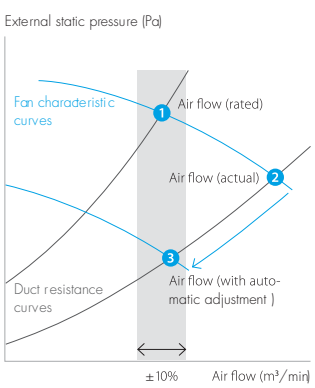

For direct connection to Daikin panel (via EKBYBSD kit)

AUTOMATIC AIRFLOW ADJUSTMENT FUNCTION

Automatically selects the most appropriate fan curve to achieve the units' nominal air flow within ±10%

Why?

After installation the real ducting will frequently differ from the initially calculated air flow resistance * the real air flow may be much lower or higher than nominal , leading to a lack of capacity or uncomfortable air temperature Automatic Airflow Adjustment function will adapt the unit's fan speed to any ducting automatically (10 or more fan curves are available on every model),making installation much faster



VRV INDOOR UNITS

High Static Concealed Ceiling Duct

FXMQ40PBV1 / FXMQ50PBV1 /
FXMQ63PBV1 / FXMQ80PBV1 /
FXMQ100PBV1 / FXMQ125PBV1 /
FXMQ140PBV1

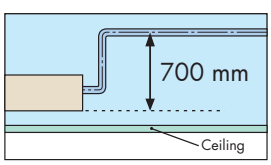
Middle and high static pressure allows for flexible duct design

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

30Pa-160Pa for FXMQ40PBV1
50Pa-200Pa for FXMQ50-125PBV1
50Pa-140Pa for FXMQ140PBV1

All models are only 300mm in height, an improvement over the 390mm height of conventional models. The weight of the FXMQ40PBV1 has been reduced from 44kg to 28kg.

Drain pump is equipped as standard accessory with 700mm lift



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

Low operation sound level

dB(A)

FXMQ-PBV1	40	50	63	80/100	125	140
Sound Level (HH/H/L)	33/31/29	34/32/30	35/33/31	36/34/32	44/42/40	46/45/43

AUTOMATIC AIRFLOW ADJUSTMENT FUNCTION

Automatically selects the most appropriate fan curve to achieve the units' nominal air flow within ±10%

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 FXMQ40-125PBV1.

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 odors.

Energy-efficient

› The adopted DC fan motor is much more efficient than the conventional AC motor, yielding an approximate 20% decrease in energy consumption (FXMQ125PBV1).

INDIVIDUAL CONTROLLER

INDIVIDUAL CONTROL SYSTEMS

BRC1H82W / BRC1H82S / BRC1H82K / BRC1H52W / BRC1H52S / BRC1H52K

Madoka wired remote controller for Sky Air and VRV

BRC1H82W / BRC1H52W

BRC1H82S / BRC1H52S

BRC1H82K / BRC1H52K

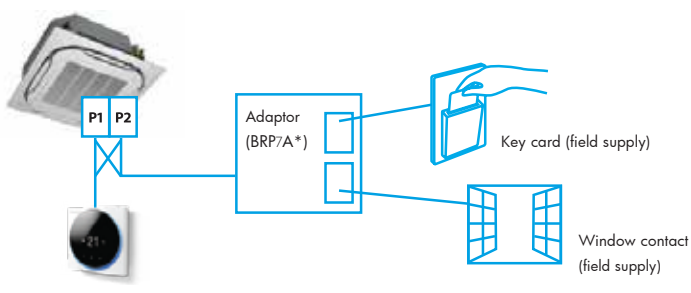
A complete redesigned controller focussed to enhance user experience

- 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 values, fan speed, louvers, filter icon & reset (4), error & code)
- Three colors 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

Key card and window contact integration



MADOKA ASSISTANT: ADVANCED SETTINGS CAN BE EASILY DONE VIA YOUR SMARTPHONE

A range of energy-saving functions that can be selected individually

- Temperature range restriction
- Setback function
- Presence and floor sensor setting (available on the Round Flow and Fully Flat Cassettes)
- Set temperature auto reset
- Off timer

Other functions

- Up to three independent schedules can beprogrammed, allowing you to switch easily between them throughout the year (e.g. summer/winter/ mid-season)
- Possibility to individually restrict menu functions

Temperature range restriction means no excessive heating/cooling

Save on energy by constraining the lower temperature limit in cooling and upper temperature limit in heating mode

Note: Also available in auto cooling/heating change over mode

INDIVIDUAL CONTROLLER

INDIVIDUAL CONTROL SYSTEMS FOR VRV INDOOR UNITS

Navigation remote controller (Wired remote controller) (Optional)

BRC1E63*

Clear display

- Dot matrix display

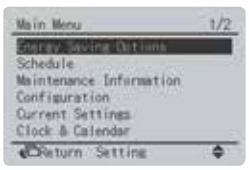
A combination of fine dots enables various icons. A large text display is easy to see.

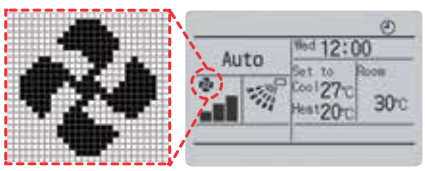
- Backlight display

Backlight display helps to operate in dark rooms.

Simple operation

- Large buttons and arrow keys
- Guide on display





Wireless remote control (optional*)

A compact signal receiver unit (separate type) to be mounted into wall or ceiling

*Not Applicable for UAE

MADOKA ASSISTANT

SIMPLIFIES THE ADVANCED SETTINGS SUCH AS SCHEDULE OR SET POINT LIMITATION

- Visual interface simplifies advanced settings such as schedule setting, energy saving activation, setting restrictions, etc.
- Easy and quick commissioning
- Featuring Bluetooth® low energy technology

Easy setting of schedules

Advanced user settings

Installer settings

Field settings

MOBILE CONNECTIVITY

REIRI HOME

Smart

HOME | LIVING

Enhance comfort and **convenience** for user, offering complete control of air conditioning systems & other smart devices remotely through mobile app access.

ALSO COMPATIBLE :

ReiriHome
DCPH01

ReirHome Lite
DCPH02

FLEXIBLE INTEGRATION

with wireless residential smart devices

CONTROL & MANAGE

All device in one platform

REIRI HOME

ReiriHome connect all smart devices and allow them communicate with each other

All connected accessible anytime from anywhere through mobile phone

Control, monitor, and manage all devices on one screen

Interlock devices for different automation and action for different requirement

Features true to product performance

Actual control interface may vary due to interface design enhancement

REIRI HOME

ACCESS WITHIN THE PREMISES

Daikin Reiri Home Control Series provides the ability of centralized control for Daikin VRV air conditioners throughout the home with a smartphone. Homeowners can control all of the core control functions in Daikin air conditioning system effortlessly from one room to another.

ACCESS ANYWHERE OUTSIDE

With Daikin Reiri Home Control Series, the home temperature can be controlled from anywhere, and homeowners can always return from work or vacation to a comfortable cooling home. This also takes the pressure off homeowners on forgetting to switch off the air conditioners when away.

ADVANCED CONTROL

Daikin Reiri Home Control Series communicates with all of Daikin VRV air conditioners, allowing homeowners to access the core control functions on a smartphone, including temperature set points, operation mode, fan speed, airflow direction and error notification.

MONITORING

Homeowners can enjoy peace of mind and convenience of monitoring air conditioners with Daikin Reiri Home Control Series from a smartphone.

REIRI HOME

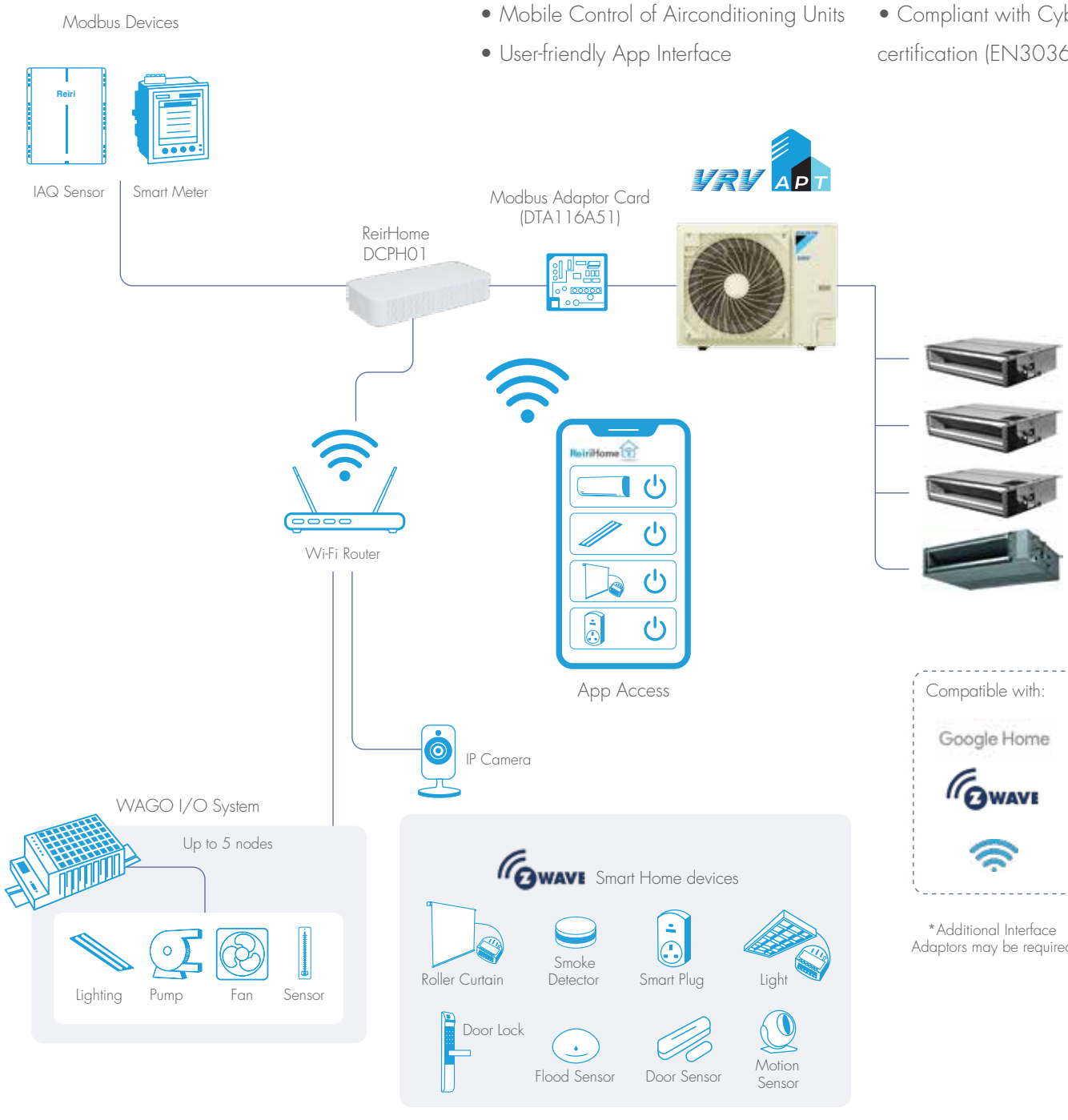
ReiriHome

The complete smart home solution for every homeowner, with integration capabilities to allow ease and convenience of control for almost every smart device.

FEATURES

Convenience & Lifestyle

- Energy Management
- IAQ Management
- Home Security Solution
- Google Home enabled
- Mobile Control of Airconditioning Units
- User-friendly App Interface
- Complete control of all connected devices
- Easy installation (Plug & Play) and configuration
- Push Notification
- Compliant with Cyber-security certification (EN303645)



Compatible with:

Google Home

Z-WAVE

*Additional Interface Adaptors may be required

ITOUCH MANAGER

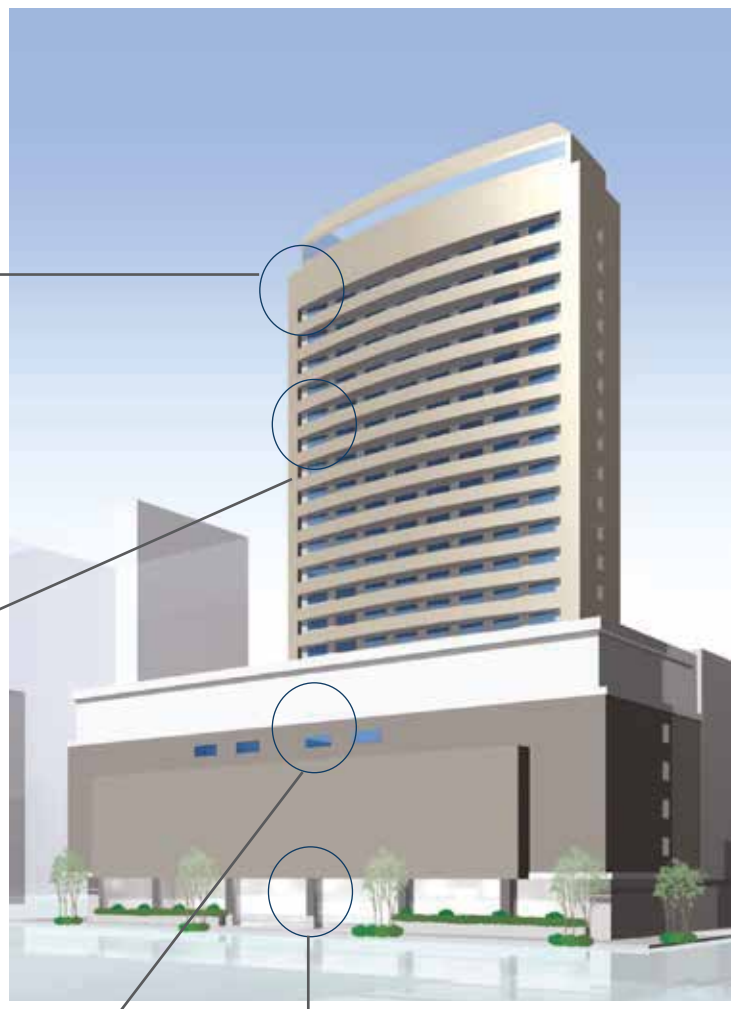
ADVANCED CONTROL SYSTEMS FOR VRV INDOOR UNITS

touch Intelligent Manager

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

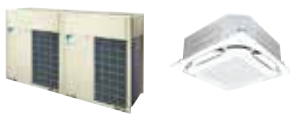
DCM601A51

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



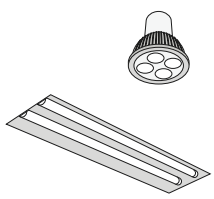
INDIVIDUAL AIR-CONDITIONING CONTROL

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



LIGHTING CONTROL

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

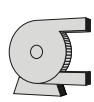


AIR-CONDITIONING CONTROL FOR LARGE SPACES

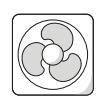
Air handling units can also be controlled. Large spaces, such as entrance halls and shopping malls, can be easily controlled to ensure comfort.

BUILDING EQUIPMENT CONTROL

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



Pump



Fan

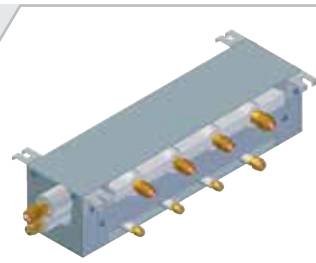
HEADER PACK

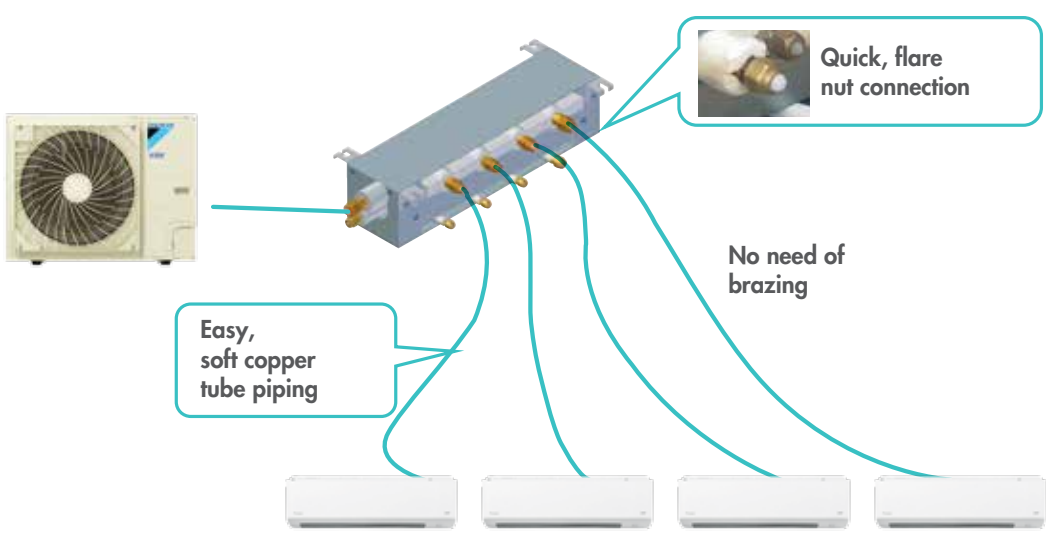
The Innovative Refrigerant Piping of next generation

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

Advantage

- Installation time saving: Up to 1/3 of the conventional method
- Easy to Install: Hanging points available
- Safety: Consists of flaring method, no brazing required
- Quality Installation: Elimination of complex processes, enhancing quality Installation





Compact design to fit into narrow attic space

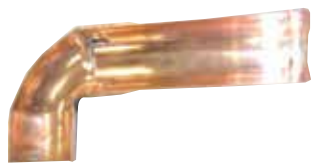
HP (VRV System)	HEADER PACK Model	Outdoor Unit Side Connection			Indoor Unit Side Connection								Indoor Unit Total Capacity Index	Dimensions (mm)		
		Liquid Pipe Diameter (mm)	Gas Pipe Diameter (mm)	Connection Type	Number of Ports			Large (Connection Diameter)		Small (Connection Diameter)		Connection Type		H	W	D
					Total	Large	Small	Liquid (mm)	Gas (mm)	Liquid (mm)	Gas (mm)					
6	BHF6RHP6Z	9.5	15.9	Flar	4	1	3	9.5	15.9	6.4	12.7	Flare	<150	135	559	143
6	BHF6ARHP6Z	9.5	15.9	Flare	6	2	4	9.5	15.9	6.4	12.7	Flare	<150	135	623	143
6,8	BHF8RHP6Z	9.5	19.1	DGT	6	3	3	9.5	15.9	6.4	12.7	Flare	<150	135	623	143

DAIKIN GAS TIGHT JOINTS

TRUSTY

No copper Oxide

- No brazing soot and scale pipe inner surface
- Clean shiny copper pipes after installation
- Prevent early compressor failure, no soot in pipes



SAFETY

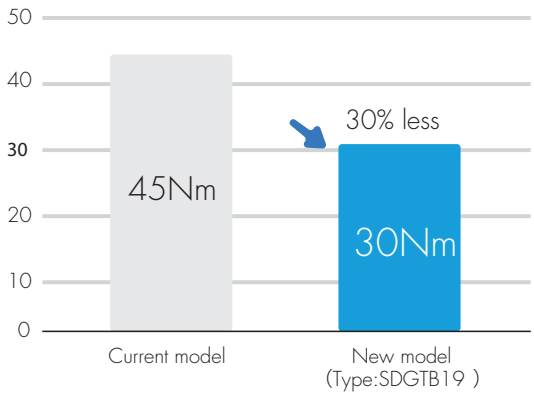
No hot works – just squeeze!

- No brazing requires, abolish fire hazard
- To avoid the risk to handle high pressure, flammable gases

EASY

- Low torque allows easy work on a scaffolding
- No need for heavy, expensive special tools
- No need for special technicians for brazing

Low torque



SAVING

- No specific permit, no specialized personnel
- Time saving with a short schedule installation project
- Simple installation process
- Cost & time saving with less administration work

(Hot work permit and safety fire watcher)

DAIKIN GAS TIGHT JOINTS

FULL LINE-UP

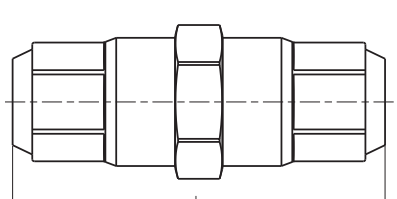
• One-stop-shopping . To conduct No Hot Work piping installation, all necessary parts are supplied including site inspection accessories

Standard Joint		Asymmetry Joint	
			
Size	Model name	Size	Model name
Φ6.35	SDGTB06	Φ12.7-9.52	SDGTB1209
Φ9.52	SDGTB09	Φ15.88-12.7	SDGTB1512
Φ12.7	SDGTB12	Φ19.05-15.88	SDGTB1915
Φ15.88	SDGTB15	Φ22.22-19.05	SDGTB2219
Φ19.05	SDGTB19	Φ25.4-22.22	SDGTB2522
Φ22.22	SDGTB22	Φ28.58-25.4	SDGTB2825
Φ28.58	SDGTB28	Φ34.92-28.58	SDGTB3428
Φ34.92	BDGTA34		
Φ41.28	BDGTA41		

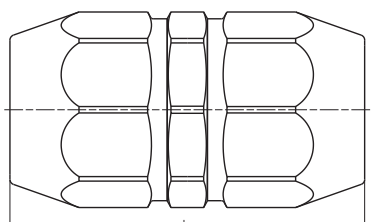
DIMENSION & WEIGH

Standard joint

Size	L (mm)	Weight (g)
φ6.35	50.4	44
φ9.52	55.0	80
φ12.7	59.0	120
φ15.88	74.0	207
φ19.05	76.8	273
φ22.22	83.4	391
φ28.58	88.0	515
φ34.92	101.5	686
φ41.28	103.5	881



Φ6.35~φ28.58



Φ34.92~φ41.28

SPECIFICATIONS

Model				RXYMQ4AVMK	RXYMQ4AYFK	RXYMQ5AYFK	RXYMQ6AYFK
Cooling capacity at T1 (1)		Capacity	kW	11.3	11.3	14.1	16.0
		Capacity	Btu/h	38500	38500	48000	54500
		EER	W/W	4.10	4.07	3.91	3.90
		EER	(Btu/h) / W	14.00	13.90	13.35	13.30
		PI	kW	2.75	2.77	3.60	4.10
Cooling capacity at T3 (2)		Capacity	kW	10.4	10.6	12.7	14.5
		Capacity	Btu/h	35400	36200	43500	49500
		EER	W/W	3.14	3.14	2.97	2.96
		EER	(Btu/h) / W	10.70	10.70	10.15	10.10
		PI	kW	3.31	3.38	4.29	4.90
		PI out	kW	3.20	3.28	4.16	4.74
		CSPF(3)	W/W	5.80	5.70	5.40	5.35
		CSPF(3)	(Btu/h) / W	19.79	19.45	18.42	18.25
		Power factor		0.9	0.9	0.9	0.9
Cooling capacity at H1(4)		Capacity	kW	12.6	12.6	16.0	18.0
		Capacity	Btu/h	43000	43000	54500	61500
		COP	W/W	4.70	4.50	4.35	4.25
		COP	(Btu/h) / W	16.04	15.37	14.85	14.50
		PI	kW	2.68	2.80	3.67	4.24
Allowed Indoor Capacity Index Connection		Nom.		100	100	125	150
		Min.		50	50	62.5	75
		Max.		130	130	162.5	195
Operation range	Cooling	Min.	°C	0			
		Max.	°C	54			
	Heating	Min.	°C	-20			
		Max.	°C	15.5			
Dimensions	Unit	Height	mm	870			
		Width	mm	1100			
		Depth	mm	460			
	Packing	Height	mm	1010			
		Width	mm	1190			
		Depth	mm	560			
Weight	Unit			100	120		
	Packed Unit			114	134		
Sound Pressure (Cooling)			dBA	51	51	58	58
Refrigerant	Refrigerant Name			R-410A			
	Charge		kg	4.2	4.95	5.4	5.4
Piping Connections	Liquid	Type		Flare Connection			
		Diameter(OD)	mm	9.5			
	Gas	Type		Flare Connection	Brazing Connection		
		Diameter(OD)	mm	15.9	15.9		19.1
POWER SUPPLY	PHASE			1~	3N~		
	FREQUENCY		Hz	50/60	50/60		
	VOLTAGE	50 Hz	V	220-240	380-415		
		60 Hz	V		400		

Notes:

1) Cooling: Indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, ISO15042:2011, power input of indoor units included

2) Cooling: Indoor temperature: 29°CDB, 19°CWB, outdoor temperature: 46°CDB, ISO15042:2011, power input of indoor units included

3) Cooling seasonal performance factor for hot climates at T3 condition per ISO 16358-1:2013/AMD 1:2019

4) Heating: Indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, ISO15042:2011, power input of indoor units included

SPECIFICATIONS

Wall Mounted

MODEL			FXAQ20ARVM	FXAQ25ARVM	FXAQ32ARVM	FXAQ40ARVM	FXAQ50ARVM	FXAQ63ARVM
Power supply			1-phase, 220V / 240V, 50/60 Hz					
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
		kW	2.2	2.8	3.6	4.5	5.6	7.1
Casing			White (N9.5)					
Airflow rate (H/L)		m^3/min	7.5/4.5	9/5	11/5.5	13/9	15/12	19/14
		cfm	265/159	318/177	388/194	459/318	530/424	671/494
Sound level (H/L)		dB(A)	35/31	36/31	38/31	39/34	42/37	47/41
Dimensions (H×W×D)		mm	298X929X258	298X929X258	298X929X258	298X929X258	298X929X258	298X929X258
Machine weight		kg	13.0	13.0	13.0	13.0	13.0	13.0
Piping connections	Liquid (Flare)	mm	6.4	6.4	6.4	6.4	6.4	9.5
	Gas (Flare)		12.7	12.7	12.7	12.7	12.7	15.9
	Drain		VP13 (External Dia, 18/Internal Dia, 13)					

Ceiling Mounted Cassette Round Flow

MODEL			FXFSQ25ARV1	FXFSQ32ARV1	FXFSQ40ARV1	FXFSQS5OARV1	FXFSQ63ARV1	FXFSQ80ARV1	FXFSQIOOARVI	FXFSQ125ARV1	FXFSQI40ARV1
Power supply			1- phase, 220-240V, 50/60 50/60 Hz								
Cooling capacity		Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800	54,600Z
		kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0
Heating capacity		Btu/h	10,900	13,600	17,100	21,500	27,300	34,100	42,700	54,600	54,600
		kW	3.2	40	5.0	63	8.0	10.0	12.5	16	16
Casing			Galvanised steel plate								
Airflow rate (H/L)		m^3/min	13/12.5/11.5/11/10		17/13.5/12.5/12/11	23/205/19/14.5/11	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	35.5/32.5/29.5/26.5/2
		cfm	459/441/406/388/353		600/477/441424/388	812/724/671/512/38	812/724/671/512/38	865/777/724/706/530	1183,/1,177/954/830/742	1218/1112/1006/901/812	1254/1,148/1,042/936/812
Sound level (H/HM/M/ML/L)		dB(A)	30/29.5/28.5/28/27		35/29.5/29/28/27	38/35/34.5/29.5/27	38/35/34.5/29.5/27	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/HM/M/ML/L)		mm	256x840x840						298x840x840		
Machine weight		kg	19			22			25		26
Piping connections	Liquid (Flare)	mm	64				9.5				
	Gas (Flare)		127				15.9				
	Drain		VP25 (External Dia, 32/Internal Dia, 25)								
Standard Panel (Optional)	Model		BYCQ125EAF6(Fresh White)								
	Dimensions (HxWxD)	mm	50x950x950								
	Weight	kg	5.5								

Note:

1) Specifications are based on the following conditions:

2) Cooling: Indoor temp 27CDB, 19CWB / Outdoor temp: 35CDB, Equivalent piping length: 7.5m / Level difference: 0m

3) The Capacity of indoor unit is only for reference. The actual capacity of indoor unit is based on the total capacity index .(See Engineering Data Book for details.)

4) Sound level: Anechoic chamber conversion value measured at a point 1.5m downward from the unit center. During actual operation, these values usually are somewhat higher as a resultof ambient conditions.

SPECIFICATIONS

Slim Ceiling Mounted Duct

MODEL			FXDQ20PDVM	FXDQ25PDVM	FXDQ32PDVM	FXDQ40NDYM	FXDQ50NDVM	FXDQ63NDVM
Power supply			1-phase, 220-240V, 50/60 Hz					
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity		Btu/h	8,500	10,900	1,3600	17,100	21,500	77,300
		kW	2.5	3.2	4	50	6.3	8.0
Casing			Galvanised steel plate					
Airflow rate (HH/H/L)		m^3/min	8.0/7.2/6.4	8.0/7.2/6.4	8.0/7.2/6.4	10.5/9.5/8.5	12.5/11.0/10.0	16.5/14.5/13.0
		cfm	282/254/226	282/254/226	282/254/226	371 (335/300	441 /388/353	583/512/459
External static pressure		Pa	30-10 *2	30-10 *2	30-10 *2	44-15*2	44-15 *2	44-15 *2
Sound level (HH/H/L)*1*3		dB(A)	33/31/29	33/31/29	33/31/29	34/32/30	35/33/31	36/34/32
Dimensions (H×W×D)		mm	200×700×620	200×700×620	200×700×620	200x900x620	200x900x620	200x1,100x620
Machine weight		kg	23.0	23.0	23.0	27.0	28.0	31.0
Piping connections	Liquid (Flare)	mm	Ø 6.4	Ø 6.4	Ø 6.4	Ø 64	Ø 6.4	Ø 9.5
	Gas (Flare)		Ø 12.7	Ø 12.7	Ø 12.7	Ø 127	Ø 12.7	Ø 15.9
	Drain		VP20 (External Dia, 26/Internal Dia, 20)					

Low Static Ceiling Mounted Duct

MODEL			FXMQ40ARV1	FXMRQ50ARV1	FXMRQ63ARV1	FXMRQ80ARV1	FXMRQ100ARV1
Power supply			1-phase, 220V / 240V, 50/60 Hz				
Cooling capacity		Btu/h	15,400	19,100	24.200	30,700	38,200
		kW	4.5	5.6	7.1	9.0	11.2
Heating capacity		Btu/h	17,100	21,500	27,300	34,100	42,700
		kW	5.O	6.3	8.0	10	12.5
Casing			Galvanised steel plate				
Airflow rate (H/L)		m^3/min	15/12	19/16	24/20	30/25	34/29
		cfm	530/425	671/565	848/706	1060/883	1200/1024
External static pressure		Pa	30-50	30-50	30-50	30-50	30-60
Sound level (H/L)		dB(A)	39/37	41/39	42/40	43/41	44/42
Dimensions (H×W×D)		mm	300x700x700	300x700x700	300x1000x700	300x1000x700	300x1000x700
Machine weight		kg	27	28	35	35	36
Piping connections	Liquid (Flare)	mm	6.4	6.4	9.5	9.5	9.5
	Gas (Flare)		12.7	12.7	15.9	15.9	15.9
	Drain		VP25 (External Dia, 32/Internal Dia, 25)				

Notes:

Specifications are based on the following conditions:

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level di erence: 0 m.
- The capacity of indoor unit is only for reference. The actual capacity of indoor unit is based on the total capacity index.
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.

During actual operation, these values usually are somewhat higher as a result of ambient conditions.

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

* 2: External static pressure is changeable to set by the remote controller. This pressure means"High static pressure - Standard".

(Factory setting is 10 Pa for FXDQ-PDVM models and 15 Pa for FXDQ-NDVM models.)

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

*4: Maximum Static Pressure

SPECIFICATIONS

High Static Ceiling Mounted Duct

MODEL			FXMQ40PBV1	FXMQ50PBV1	FXMQ63PBV1	FXMQ80PBV1	FXMQ1000PBV1	FXMQ125PBV1	FXMQ140PBV1
Power supply			1 phase,240-220V, 60/50Hz						
Cooling capacity		Btu/h	15,400	19,100	24,200	30,700	38,200	47,800	54,600
		kW	4.5	5.6	7.1	9.0	11.2	14.0	16.0
Heating capacity		Btu/h	8,500	10,900	1,3600	17,100	21,500	77,300	77,300
		kW	2.5	3.2	4	50	6.3	8.0	8.0
Casing			Galvanised steel plate				Galvanised steel plate		
Airflow rate (HH/H/L)		m^3/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
		cfm	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)*2	100(200-50) *2	100(200-50)*2	100(200-50)*2	100(200-50) *2	100(200-50) *2	100(140-50) *2
Sound level (HH/H/L)*1*3		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×W×D)		mm	300x700x700	300x1000x700	300x1000x700	300x1000x700	300x1400x700	300x1400x700	300x1400x700
Machine weight		kg	23.0	23.0	23.0	27.0	28.0	31.0	31.0
Piping connections	Liquid (Flare)	mm	Ø 6.4	Ø 6.4	Ø 9.5	Ø 9.5	Ø 9.5	Ø 9.5	9.5
	Gas (Flare)		Ø 12.7	Ø 12.7	Ø 12.7	Ø 15.9	Ø 15.9	Ø 15.9	15.9
	Drain		VP25(External dia.32 Internal dia.25)						

Medium Static Ceiling Mounted Duct

Indoor unit			FXSQ-A2VEB	15A	20A	25A	32A	40A	50A	63A	80A	100A	125A	140A
Power supply	Phase/Frequency/Voltage		Hz/V	1 phase,240-220V,50Hz / 220 V, 60 Hz										
Cooling capacity	Total capacity	Nom.	kW	1.70	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00	16.00
Heating capacity	Total capacity	Nom.	kW	1.90.	2.50.	3.20	4.00	5.00	6.30	8.00	10.0	12.5	16.0	18.0
Power input - 50z	Cooling	Nom.	kW	0.090			0.096	0.151	0.154	0.188	0.213	0.290	0.331	0.386
	Heating	Nom.	kW	0.086			0.092	0.147	0.150	0.183	0.209	0.285	0.326	0.382
	Unit	HeightxWidthxDepth	mm	245x550x800				245x700x800		245x1,000x800		245x1,400x800		245x1,550x800
Weight	Unit		kg	23.5			24.0	28.5	29.0	35.5	36.5	46.0	47.0	51.0
Casing	Material			Galvanised steel plate										
Sound level	Cooling	High	dBA	54			55	60		59	61		64	
Piping connections	Liquid	OD	mm	6.35						9.52				
	Gas	OD	mm	12.7						15.9				
	Drain			VP20 (I.D. 20/O.D. 26), drain height 625 mm										

Notes:

Specifications are based on the following conditions:

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

The capacity of indoor unit is only for reference. The actual capacity of indoor unit is based on the total capacity index.

Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.

During actual operation, these values usually are somewhat higher as a result of ambient conditions.

* 1: Power consumption values are based on conditions of rated external static pressure.

* 2: External static pressure can be modied using a remote controller that offers seven (FXMQ20-32PBV1), thirteen (FXMQ40PBV1), fourteen (FXMQ50-125PBV1) or ten (FXMQ140PBV1) levels of control. These values indicate the lowest and highest possible static pressures.

The standard static pressure is 50 Pa for FXMQ20-32PBV1 and 100 Pa for FXMQ40-140PBV1

Independently Tested by

Intertek

DAIKIN MIDDLE EAST AND AFRICA FZE

PO box 18674, Plot MO0426, Jafza North, Jebel Ali Free Zone, Dubai,UAE | Tel: +971 4 8159 300 | Fax: +971 4 8159 311

Email: info@daikinmea.com Website: www.daikinmea.com Toll Free: 800 DAIKIN (324546)

DMEA 08-21 VRV Apt GCC