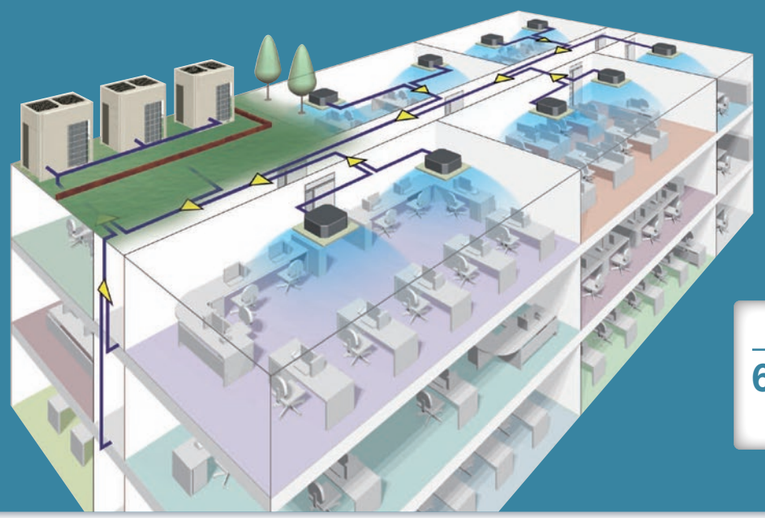
VRV H SERIES Saves Space and Delivers Excellent Performance

VRV H SERIES Heat Pump



RXYQ-A

Heat Pump

6 class - 60 class
(16 kW) (168 kW)

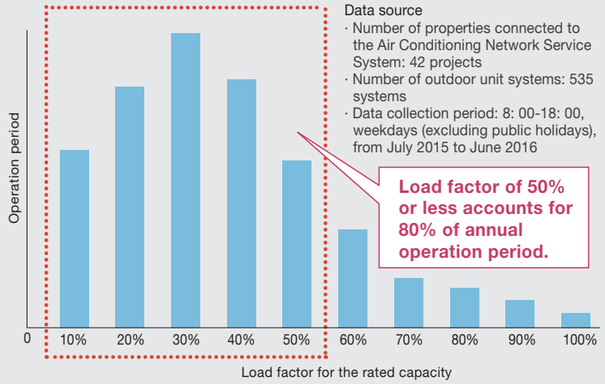
Greater energy savings during low-load operation

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

Using data gathered from actual operation, Daikin discovered that air conditioning systems operate at a load factor of 50% or less for 80% of their annual operation period.*
This inspired us to develop new technologies to enhance energy efficiency during low-load operation.
Utilising these technologies, Daikin's new ***VRV*** H series raises the standard of energy efficiency.

* Main factors for frequent operation at low load of 50% or lower
· Because individual control is possible for ***VRV*** system, air conditioning is turned OFF to unoccupied rooms such as conference rooms, private rooms, and storage rooms.
· Maximum number of people assumed at the time of design has not been reached.
· There are zones without tenants such as the tenants' office building.

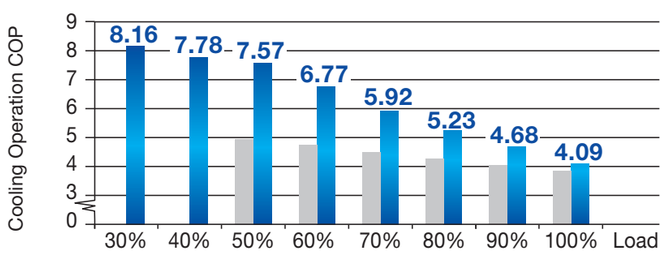
•Correlation between the load factor for the rated capacity and operation time (in office buildings in Singapore)
*According to a survey by Daikin (based on Air Conditioning Network Service System data)



Data source
· Number of properties connected to the Air Conditioning Network Service System: 42 projects
· Number of outdoor unit systems: 535 systems
· Data collection period: 8: 00-18: 00, weekdays (excluding public holidays), from July 2015 to June 2016

Higher Coefficient of Performance (COP)

COP for 10 class



Annual power consumption
14%* lower

* Simulation conditions :
• Location : Bangkok, Thailand
• System : Outdoor unit (10 class) x 1
Indoor unit (2 class, Round Flow with Sensing type) x 5
• Operation time : 8:00-20:00 5 days/week
• Outdoor units :
New model : RXYQ10A (***VRV*** H series)
Conventional model : RXYQ10T (***VRV*** IV)

VRV IV (RXYQ10T)
VRV H SERIES

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

Advanced technologies for greater energy savings

By uniting advanced software and hardware technologies, *VRV* H Series is able to attain greater heights in energy savings and comfort.

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

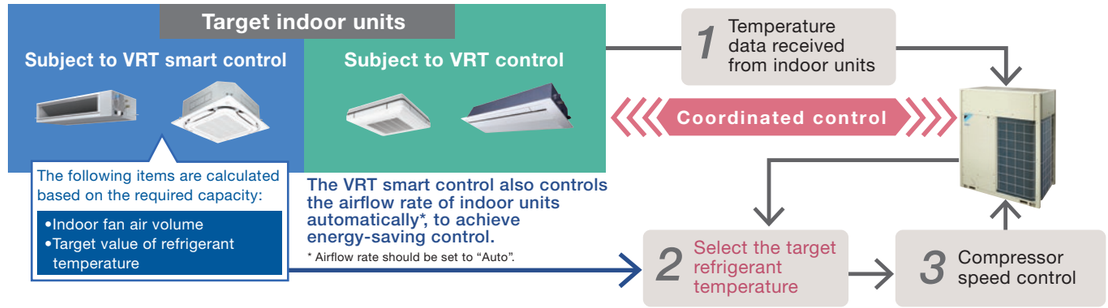
Software technology

Daikin's VRT Smart technology takes comfort and energy performance to the next level. Building on our variable refrigerant temperature technology which enables the evaporating temperature to adjust to meet the varying load, VRT Smart is now also able to automatically adjust the indoor unit airflow rate (Airside Control) to ensure optimal comfort and energy performance is delivered at all times.

VRT SMART

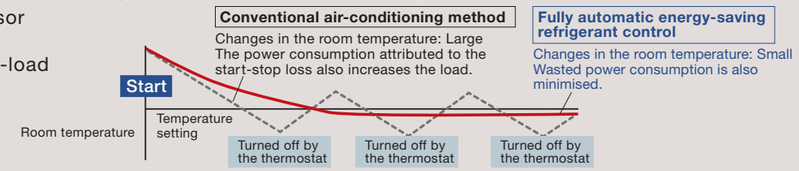
VRT Smart Control Function movie

•Overview of the control (system control flow)
Different automatic energy-saving refrigerant control applies depending on the indoor units connected.



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

•Changes in the room temperature during low-load operation*



*Graph shown above is for illustration purposes only.

Note:
•For the classification of indoor units (VRT smart control and VRT control), refer to pages 25–26.
•If a system has indoor units subject to both VRT smart and VRT control, the system is operated under VRT control.
•If a system has both outdoor-air processing air conditioners and outdoor-air processing type indoor units, VRT smart control and VRT control are disabled.

Optimum utilisation of VRT Smart Control and VRT Control

VRT Smart and VRT control is most effective when all the indoor units operate under low load conditions in a similar manner.
Low load conditions is the time when room temperature approaches set temperature.
For this reason, please note the following to maximise efficacy.

•When selecting indoor units
Indoor units are installed in a system so that they operate largely under the same conditions.
Energy efficiency decreases for the installation patterns indicated below.
Example:
1) A load imbalance occurs because an indoor unit on the same system is installed near the perimeter of the room or in the vicinity of a room entrance.
2) Different operating hours for indoor units.
3) Energy efficiency decreases when the set temperature of a specified indoor unit is set to an extreme during cooling operation. E.g. 18°C

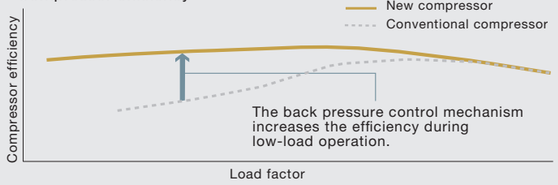
New Scroll Compressor*

Hardware technology

Refrigerant leakage is minimised during low-load operation.

Operational loss due to refrigerant leakage is reduced with the inclusion of a proprietary back pressure control mechanism to ensure stable low-load operation.

•Compressor efficiency*



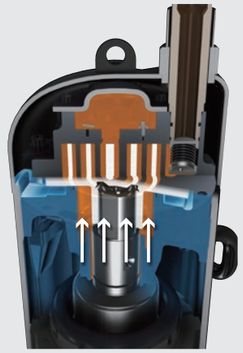
*Graph shown above is for illustration purposes only.

New Scroll Compressor movie

Back pressure control mechanism

Conventional mechanism

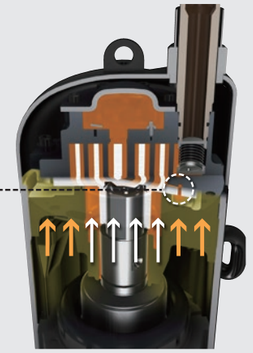
The orbiting scroll is engaged by the pressure difference between high and low pressures.
The force engaging the orbiting scroll decreases during low-load operation, resulting in compression leakage from movable parts.



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

New intermediate pressure mechanism

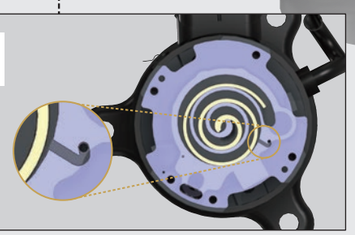
The pressure on the orbiting scroll is optimised according to operating conditions. As a result, the orbiting scroll has been stabilised to increase efficiency during low-load operation.



The intermediate pressure maintains pressure on the orbiting scroll during low-load operation.

Intermediate pressure adjustment port

The intermediate pressure (back pressure) optimises the pressure on the orbiting scroll depending on the operating condition.



* The new mechanism is only applicable to RXYQ10, 12 and 20A models.

Advanced oil temperature control

Standby power consumption is reduced

The advanced oil temperature control reduces standby power consumption by up to 82.7%* annually compared to conventional models. Standby power needed for preheating refrigerator oil, which consumed substantial standby power, was reduced to save energy when the air conditioner is stopped.

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

High reliability

New inverter PC board

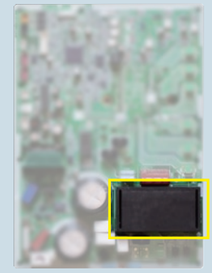
The control functions of inverter technology have been integrated on printed circuit boards. As well as improving reliability, this has reduced the number of parts and enabled downsizing.

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

Conventional inverter

Electrolytic capacitors

New inverter PC board



Film capacitor

Comfort

Low operation sound

High efficiency heat exchanger helps to achieve low operation sound.

Sound level(dB(A))

	6/8 class	10 class	12 class	14/16 class
VRV H SERIES	56	57	59	60

Large airflow, high static pressure and quiet technology

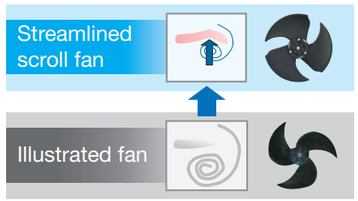
Advanced analytic technologies are utilised to optimise fan design and increase airflow rate and high external static pressure.

Streamlined air grille

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

Streamlined scroll fan

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

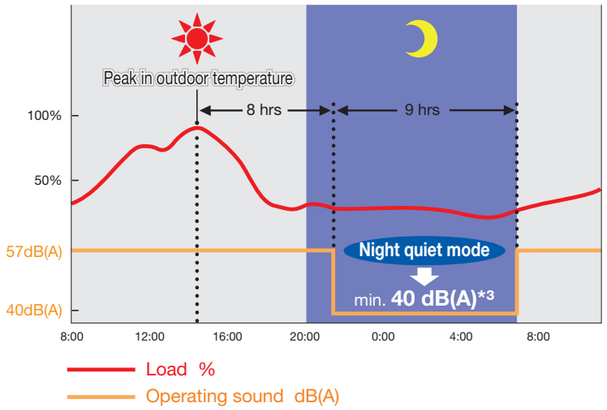


Nighttime quiet operation function

For areas with stringent restrictions placed on outdoor sound levels, the outdoor unit can be set for low operation sound during the nighttime to meet sound restrictions.

The automatic night quiet mode will initiate 8 hours*1 after the peak temperature is reached in the daytime, and normal operation will resume 9 hours*2 after that.

*1. Initial setting is 8 hours. Can be selected from 6, 8 and 10 hours.
*2. Initial setting is 9 hours. Can be selected from 8, 9 and 10 hours.
*3. In case of 10 class outdoor unit.



Note:
- The night quiet mode lowers operating sound by reducing capacity. This function is available in setting at site.
- The operating sound in quiet operation mode is the actual value measured by our company. Because priority is given to protection mode, such as for oil recovery, the operating sound may become higher temporarily.
- The relationship of outdoor temperature (load) and time shown above is just an example.

Compact design with high performance

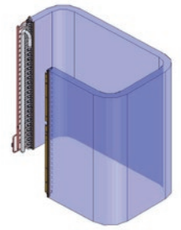
Highly integrated heat exchanger

The unique 4-sided all round heat exchanger ensures sufficient surface area for the heat exchanger. This improves the heat exchanger performance without increasing the footprint.

Waffle Fin

A waffled-shaped fin with fin pitch of 1.4 mm was adopted to realise sufficient heat exchanger area for optimum unit efficiency.

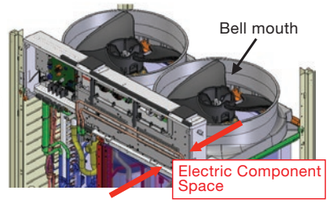
4-sided heat exchanger



High efficiency heat exchanger is realised by reducing airflow resistance with adoption of small cooling tubes with a diameter of Φ7.

Optimised inner design to ensure smooth airflow

Electric components were downsized and positioned in the dead space of the bell mouth side to decrease airflow resistance.



Easy maintenance

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

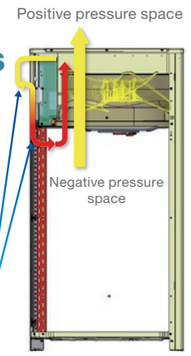
Electrical components

Sufficient cooling for electrical components

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

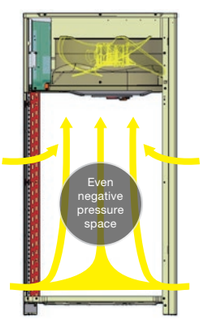
- High pressure since air enters near the fan blower inlet

High pressure difference



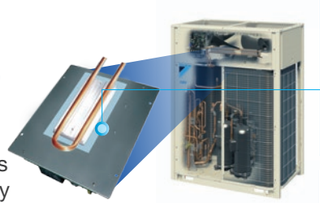
Eliminate suction resistance issue

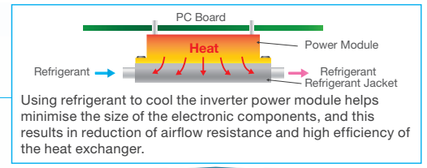
Without affecting the fan volume, the electric components are designed to be at the top and this ulitises dead space. This eliminates the problem of suction resistance.



High reliability at high ambient temperatures

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





Using refrigerant to cool the inverter power module helps minimise the size of the electronic components, and this results in reduction of airflow resistance and high efficiency of the heat exchanger.

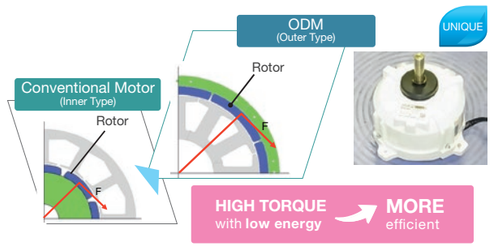
Control board failure ratio at stable operation is reduced.

Outer Rotor DC Motor (ODM)

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

Advantages of ODM

Thanks to the large diameter of the rotor,
① Large torque with same electromagnetic force
② Stable rotation in all ranges and can be operated with small number of rotations

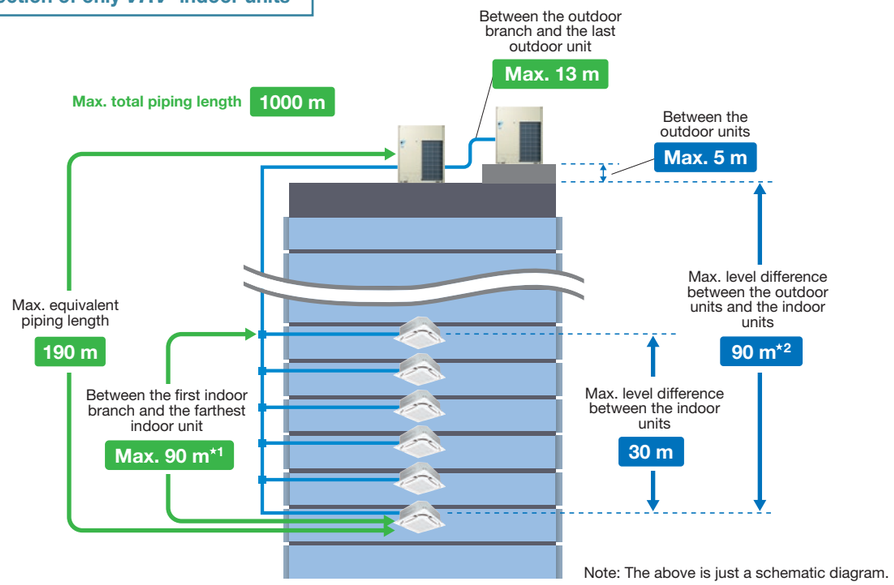


More options for installation location

Long piping length

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

For connection of only *VRV* indoor units



Note: The above is just a schematic diagram.

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

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

Connection ratio

Connection capacity at maximum is 200%.

Connection ratio
50%–200%

Connection ratio =

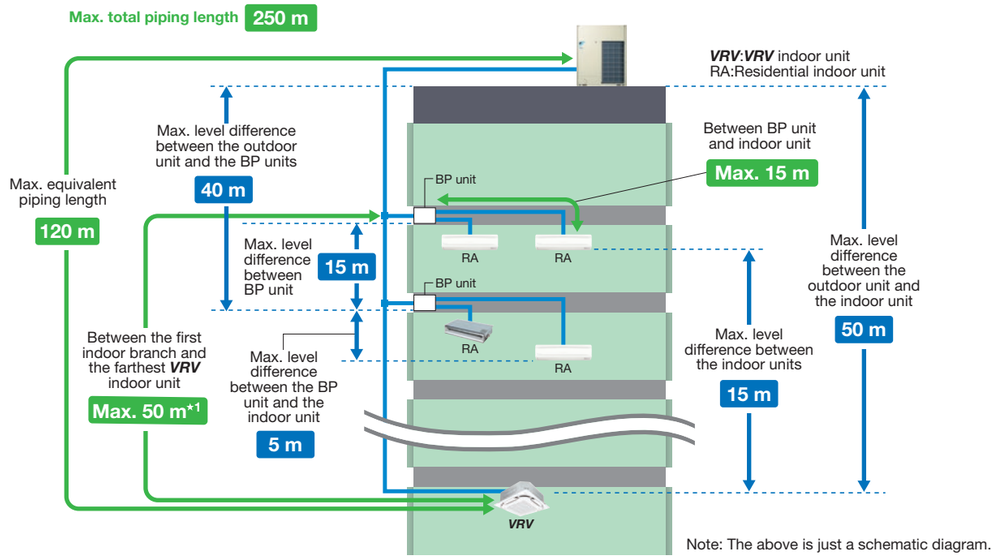
$$\frac{\text{Total capacity index of the indoor units}}{\text{Capacity index of the outdoor units}}$$

Conditions of *VRV* indoor unit connection capacity

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

*1 For the FXF(S)Q25 models, maximum connection ratio is 130% for the entire range of outdoor units.
Note: If the operational capacity of indoor units is more than 130%, low airflow operation is enforced in all the indoor units.
*Refer to page 24 for outdoor unit combination details.

For mixed combination of *VRV* and residential indoor units



Note: The above is just a schematic diagram.

When a mixed combination of *VRV* and residential indoor units is connected or when only residential indoor units are connected

Maximum allowable piping length	Actual piping length (Equivalent)		**100** m (**120** m)
	Total piping length		**250** m
	Between BP unit and indoor unit	If indoor unit capacity index < 60.	**2** m–**15** m
		If indoor unit capacity index is 60.	**2** m–**12** m
		If indoor unit capacity index is 71.	**2** m–**8** m
	Between the first indoor branch and the farthest BP unit or between the first indoor branch and the farthest ***VRV*** indoor unit		**50** m★1
	Between outdoor unit and the first indoor branch		**5** m
Maximum allowable level difference	Between the indoor units		**15** m
	Between BP units		**15** m
	Between the outdoor unit and the indoor unit	If the outdoor unit is above.	**50** m
		If the outdoor unit is below.	**40** m
	Between the outdoor unit and the BP unit		**40** m
	Between the BP unit and the indoor unit		**5** m

★1. If the piping length between the first indoor branch and BP unit or ***VRV*** indoor unit is over 20 m, it is necessary to increase the gas and liquid piping size between the first indoor branch and BP unit or ***VRV*** indoor unit. If the piping diameter of the sized up piping exceeds the diameter of the piping before the first indoor branch kit, then the latter also requires a liquid piping and gas piping size up. Please refer to Engineering Data Book for details.

*When a mixed combination of ***VRV*** and residential indoor units is connected or when only residential indoor units are connected, connection ratio must be 80% to 130%. Refer to page 24 for outdoor unit combination details.

High external static pressure

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

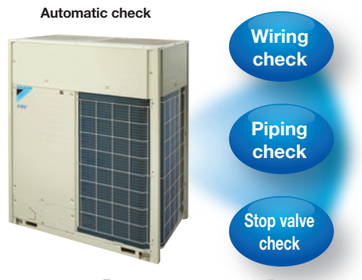
78.4 Pa
- More options in the opening/angle of louvre
- Outstanding heat dissipation effect in both hierarchical and intensive arrangement

More accurate test operation and stable system

Efficient automatic test operation

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

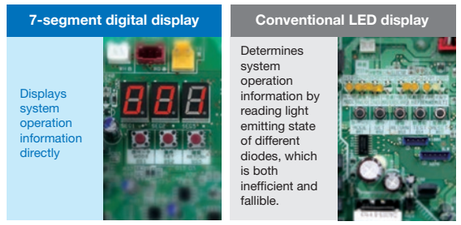
- Automatically checks the wiring between outdoor units and indoor units to confirm whether there is defective wiring.
- Confirms piping length to optimise operation.
- Automatically checks whether the stop valve in each outdoor unit is functioning normally to ensure the smooth operation of air conditioning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



Simplified commissioning and after-sales service

Function of information display by luminous digital tube

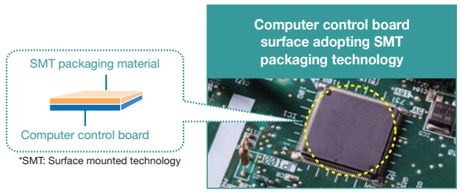
VRV H series utilises 7-segment luminous digital tubes to display system operation information, enabling the operational state to be visually displayed whilst facilitating simplified commissioning and after-sales service.



Advanced control main PC board

SMT* packaging technology

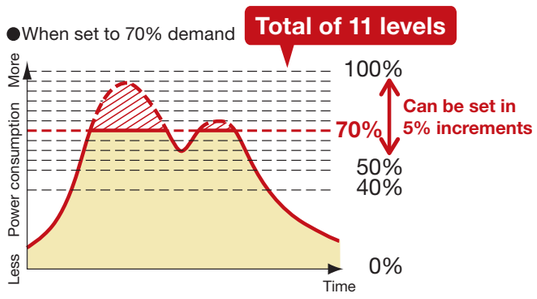
- SMT packaging technology adopted by the computer control panel improves the anti-clutter performance.
- Protects your computer boards from the adverse effects of sandy climates and humid weather.



I-demand function

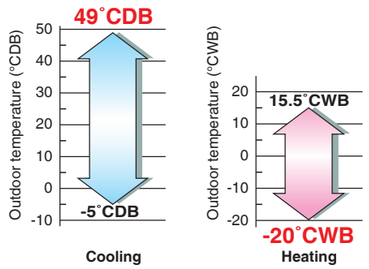
Limit to power consumption can be set precisely to one of 11 levels. Peak power cut-off can be accomplished according to each user situation.

*Set on the circuit board of the outdoor unit.



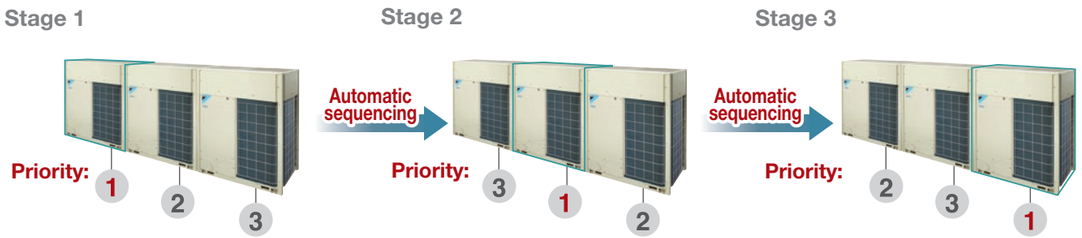
Wide operation temperature range

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



Automatic sequencing operation

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



Double backup operation functions

Daikin ***VRV*** H series outdoor unit boasts double backup operation functions, which can secure the use of air conditioners in this area to the greatest extent in an emergency by enabling double backup operation functions even if failure occurs in a set of air conditioning equipment.
In the event of a failure, emergency operation can be conveniently enabled to allow the remaining system to operate in a limited fashion.

Unit backup operation function

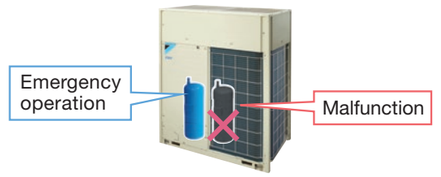
If one of the units in a multiple outdoor system malfunctions, the other outdoor units provide emergency operation until repairs can be made.

* For systems composed of two or more outdoor units.

Compressor backup operation function

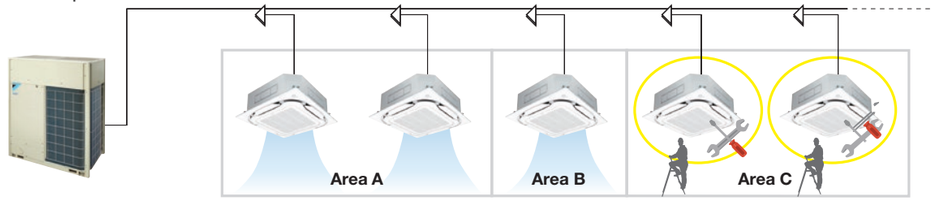
The outdoor unit is equipped with two compressors. Even if one compressor malfunctions, the other compressor provides emergency operation, reducing the risk of air conditioning shutdown due to compressor failure. (Capacity is saved during backup operation.)

* For single outdoor unit system RXYQ14-20AYM models. On-site settings are required using the printed circuit board of the outdoor unit.



Ease of maintenance

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



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

VRV H Series Outdoor Units Heat Pump

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

- ***VRV*** H series outdoor unit offers a high capacity of up to 60 class, responding to the needs of large-sized building.
- The single outdoor unit has only 2 different shapes and dimensions, not only simplifying the design process, but also bringing the system flexibility to a new level.
- With the outdoor unit capacity increased in increment of 2 class, customers' needs can be precisely met.

Lineup

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

High-COP Type

•Double Outdoor Units

12, 14, 16, 18, 20 class

RXYQ12AHYMA
RXYQ14AHYMA
RXYQ16AHYMA
RXYQ18AHYMA
RXYQ20AHYMA

•Triple Outdoor Units

22, 24, 26, 28, 30, 32, 34, 36 class

RXYQ22AHYMA
RXYQ24AHYMA
RXYQ26AHYMA
RXYQ28AHYMA
RXYQ30AHYMA
RXYQ32AHYMA
RXYQ34AHYMA
RXYQ36AHYMA

Standard Type

•Single Outdoor Units

6, 8, 10, 12 class

RXYQ6AYM
RXYQ8AYM
RXYQ10AYM
RXYQ12AYM

14, 16, 18, 20 class

RXYQ14AYM
RXYQ16AYM
RXYQ18AYM
RXYQ20AYM

•Double Outdoor Units

22, 24 class

RXYQ22AYMA
RXYQ24AYMA

26, 28, 30 class

RXYQ26AYMA
RXYQ28AYMA
RXYQ30AYMA

32, 34, 36 class

RXYQ32AYMA
RXYQ34AYMA
RXYQ36AYMA

•Triple Outdoor Units

38, 40 class

RXYQ38AYMA
RXYQ40AYMA

42, 44 class

RXYQ42AYMA
RXYQ44AYMA

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

RXYQ46AYMA
RXYQ48AYMA
RXYQ50AYMA
RXYQ52AYMA
RXYQ54AYMA
RXYQ56AYMA
RXYQ58AYMA
RXYQ60AYMA

Outdoor Unit Combinations

For connection of only *VRV* indoor units

High-COP Type

class	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units*2	Maximum number of connectable indoor units*2
12	32.0	300	RXYQ12AH	RXYQ6A × 2	BHFP22P100	150 to 390 (480)	19 (24)
14	38.4	350	RXYQ14AH	RXYQ6A + RXYQ8A		175 to 455 (560)	22 (28)
16	44.8	400	RXYQ16AH	RXYQ8A × 2		200 to 520 (640)	26 (32)
18	50.4	450	RXYQ18AH	RXYQ8A + RXYQ10A		225 to 585 (720)	29 (36)
20	55.9	500	RXYQ20AH	RXYQ8A + RXYQ12A		250 to 650 (800)	32 (40)
22	60.8	550	RXYQ22AH	RXYQ6A + RXYQ8A × 2	BHFP22P151	275 to 715 (715)	35 (35)
24	67.2	600	RXYQ24AH	RXYQ8A × 3		300 to 780 (780)	39 (39)
26	72.8	650	RXYQ26AH	RXYQ8A × 2 + RXYQ10A		325 to 845 (845)	42 (42)
28	78.3	700	RXYQ28AH	RXYQ8A × 2 + RXYQ12A		350 to 910 (910)	45 (45)
30	83.9	750	RXYQ30AH	RXYQ8A + RXYQ10A + RXYQ12A		375 to 975 (975)	48 (48)
32	89.4	800	RXYQ32AH	RXYQ8A + RXYQ12A × 2		400 to 1,040 (1,040)	52 (52)
34	95.0	850	RXYQ34AH	RXYQ10A + RXYQ12A × 2		425 to 1,105 (1,105)	55 (55)
36	101	900	RXYQ36AH	RXYQ12A × 3		450 to 1,170 (1,170)	58 (58)

Standard Type

class	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units*2	Maximum number of connectable indoor units*2
6	16.0	150	RXYQ6A	RXYQ6A	–	75 to 195 (300)	9 (15)
8	22.4	200	RXYQ8A	RXYQ8A	–	100 to 260 (400)	13 (20)
10	28.0	250	RXYQ10A	RXYQ10A	–	125 to 325 (500)	16 (25)
12	33.5	300	RXYQ12A	RXYQ12A	–	150 to 390 (600)	19 (30)
14	40.0	350	RXYQ14A	RXYQ14A	–	175 to 455 (700)	22 (35)
16	45.0	400	RXYQ16A	RXYQ16A	–	200 to 520 (800)	26 (40)
18	50.0	450	RXYQ18A	RXYQ18A	–	225 to 585 (900)	29 (45)
20	56.0	500	RXYQ20A	RXYQ20A	–	250 to 650 (1,000)	32 (50)
22	61.5	550	RXYQ22A	RXYQ10A + RXYQ12A	BHFP22P100	275 to 715 (880)	35 (44)
24	67.0	600	RXYQ24A	RXYQ12A × 2		300 to 780 (960)	39 (48)
26	73.5	650	RXYQ26A	RXYQ12A + RXYQ14A		325 to 845 (1,040)	42 (52)
28	78.5	700	RXYQ28A	RXYQ12A + RXYQ16A		350 to 910 (1,120)	45 (56)
30	83.5	750	RXYQ30A	RXYQ12A + RXYQ18A		375 to 975 (1,200)	48 (60)
32	90.0	800	RXYQ32A	RXYQ16A × 2		400 to 1,040 (1,280)	52 (64)
34	95.0	850	RXYQ34A	RXYQ16A + RXYQ18A		425 to 1,105 (1,360)	55 (64)
36	101	900	RXYQ36A	RXYQ16A + RXYQ20A		450 to 1,170 (1,440)	58 (64)
38	107	950	RXYQ38A	RXYQ12A × 2 + RXYQ14A	BHFP22P151	475 to 1,235 (1,235)	61 (61)
40	112	1,000	RXYQ40A	RXYQ12A × 2 + RXYQ16A		500 to 1,300 (1,300)	64 (64)
42	118	1,050	RXYQ42A	RXYQ10A + RXYQ16A × 2		525 to 1,365 (1,365)	
44	124	1,100	RXYQ44A	RXYQ12A + RXYQ16A × 2		550 to 1,430 (1,430)	
46	130	1,150	RXYQ46A	RXYQ14A + RXYQ16A × 2		575 to 1,495 (1,495)	
48	135	1,200	RXYQ48A	RXYQ16A × 3		600 to 1,560 (1,560)	
50	140	1,250	RXYQ50A	RXYQ16A × 2 + RXYQ18A		625 to 1,625 (1,625)	
52	145	1,300	RXYQ52A	RXYQ16A + RXYQ18A × 2		650 to 1,690 (1,690)	
54	150	1,350	RXYQ54A	RXYQ18A × 3		675 to 1,755 (1,755)	
56	156	1,400	RXYQ56A	RXYQ18A × 2 + RXYQ20A		700 to 1,820 (1,820)	
58	162	1,450	RXYQ58A	RXYQ18A + RXYQ20A × 2		725 to 1,885 (1,885)	
60	168	1,500	RXYQ60A	RXYQ20A × 3		750 to 1,950 (1,950)	

Note: *1. For multiple connection, the outdoor unit multi connection piping kit (separately sold) is required.
*2. Values inside brackets are based on connection of indoor units rated at maximum capacity, 200% for single outdoor units, 160% for double outdoor units, and 130% for triple outdoor units. Refer to page 19 for notes on connection capacity of indoor units.

For mixed combination of *VRV* and residential indoor units or connection of residential indoor units only

Model name*1	kW	class	Capacity index	Total capacity index of connectable indoor units*2 Combination (%)			Maximum number of connectable indoor units
				80%	100%	130%	
RXYQ6AYM	16.0	6	150	120	150	195	9
RXYQ8AYM	22.4	8	200	160	200	260	13
RXYQ10AYM	28.0	10	250	200	250	325	16
RXYQ12AYM	33.5	12	300	240	300	390	19
RXYQ14AYM	40.0	14	350	280	350	455	22
RXYQ16AYM	45.0	16	400	320	400	520	26
RXYQ18AYM	50.0	18	450	360	450	585	29
RXYQ20AYM	56.0	20	500	400	500	650	32

Note: *1. Only single outdoor unit (RXYQ6-20AYM) can be connected.
*2. Total capacity index of connectable indoor units must be 80%–130% of the capacity index of the outdoor unit.

Enhanced range of choices

A mixed combination of ***VRV*** indoor units and residential indoor units is enabled all in one system, opening the door to stylish and quiet indoor units.

VRV indoor units

● New lineup ● Indoor units subject to VRT smart control

Type	Model Name		20	25	32	40	50	63	71	80	100	125	140	145	160	180	200	250
		Capacity Range(kW)	2.2	2.8	3.6	4.5	5.6	7.1	8	9	11.2	14	16	16.2	18	20	22.4	28
		Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	145	160	180	200	250
Ceiling Mounted Cassette (Round Flow with Sensing)	FXFSQ-AVM			●	●	●	●	●		●	●	●	●					
Ceiling Mounted Cassette (Round Flow)	FXFQ-PVE			●	●	●	●	●		●	●	●						
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-A2VEB		●	●	●	●	●											
4-Way Flow Ceiling Suspended	FXUQ-AVEB								●		●							
Ceiling Mounted Cassette (Double Flow)	New FXCQ-AVM		●	●	●	●	●	●		●		●						
Ceiling Mounted Cassette (Single Flow)	FXEQ-AV36		●	●	●	●	●	●										
Slim Ceiling Mounted Duct (Compact Series)	FXDQ-TV1B(A)		●	●	●	●	●	●										
Slim Ceiling Mounted Duct (Standard Series)	FXDQ-PDVE	(700mm width type)	●	●	●													
	FXDQ-NDVE	(900 / 1100mm width type)				●	●	●										
Ceiling Concealed Duct	FXDYQ-MAV1									●	●	●		●				
Middle Static Pressure Ceiling Mounted Duct	FXSQ-PAVE		●	●	●	●	●	●		●	●	●	●					
Ceiling Mounted Duct	FXMQ-PAVE		●	●	●	●	●	●		●	●	●	●					
	FXMQ-PV1A														●	●	●	●
Outdoor-Air Processing Unit	FXMQ-MFV1											●					●	●
Ceiling Suspended	FXHQ-MAVE				●			●			●							
	New FXHQ-AVM											●	●					
Wall Mounted	New FXAQ-AVM		●	●	●	●	●	●										
Floor Standing	FXLQ-MAVE		●	●	●	●	●	●										
Concealed Floor Standing	FXNQ-MAVE		●	●	●	●	●	●										
Heat Reclaim Ventilator with DX-Coil and Humidifier	VKM-GA(M)V1		Airflow rate 500-1000 m³/h															
Heat Reclaim Ventilator	VAM-GJVE		Airflow rate 150-2000 m³/h															
Air Handling Unit	AHUR		6–60 class															

Note: For indoor units without 'VRT Smart', the standard 'VRT' control is available (excludes Heat Reclaim Ventilators & Outdoor-Air Processing Unit).

Residential indoor units with connection to BP units

Type	Model Name		20	25	35	50	60	71
		Rated Capacity (kW)	2.0	2.5	3.5	5.0	6.0	7.1
		Capacity Index	20	25	35	50	60	71
Ceiling Mounted Cassette (Compact Multi Flow)	FFQ-BV1B			●	●	●	●	
Slim Ceiling Mounted Duct	FDXS-CVMA	(900/1,100 mm width type)		●	●	●	●	
Wall Mounted	FTXS-KVMA		●	●	●			
	FTXS-KAVMA					●	●	●

Note: BP units are necessary for residential indoor units. Only single outdoor unit (RXYQ6-20AYM) can be connected.

VRV indoor unit type combinations

VRV indoor unit system

***VRV* indoor units only**

Max. 64 indoor units

- If a system has indoor units subject to both VRT smart and VRT control, the system is operated under VRT control.
- If a system has both outdoor-air processing air conditioners and outdoor-air processing type indoor units, VRT smart control and VRT control are disabled.

Mixed residential and *VRV* indoor unit system

Max. 32 indoor units

Residential indoor units **VRV indoor units**

- BP units are necessary for residential indoor units. Only single outdoor unit (RXYQ6-20AYM) can be connected.
- If a system has both residential indoor units and ***VRV*** indoor units, the system is operated under VRT control.

Residential indoor unit only system

Max. 32 indoor units

Residential indoor units only

- BP units are necessary for residential indoor units. Only single outdoor unit (RXYQ6-20AYM) can be connected.
- If a system has only residential indoor units, the system is operated under VRT control.

VRV H Series Outdoor Units Heat Pump RXYQ-A

High-COP Type

											
Model			**RXYQ12AHYMA**	**RXYQ14AHYMA**	**RXYQ16AHYMA**		**RXYQ18AHYMA**	**RXYQ20AHYMA**	**RXYQ22AHYMA**		
Combination units			**RXYQ6AYM**	**RXYQ6AYM**	**RXYQ8AYM**		**RXYQ8AYM**	**RXYQ8AYM**	**RXYQ6AYM**		
			RXYQ6AYM	**RXYQ8AYM**	**RXYQ8AYM**		**RXYQ10AYM**	**RXYQ12AYM**	**RXYQ8AYM**		
			–	–	–		–	–	**RXYQ8AYM**		
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz				3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz				
Cooling capacity		Btu/h	109,000	131,000	153,000		172,000	191,000	207,000		
		kW	32.0	38.4	44.8		50.4	55.9	60.8		
Heating capacity		Btu/h	123,000	147,000	171,000		193,000	213,000	232,000		
		kW	36.0	43.0	50.0		56.5	62.5	68.0		
Power consumption	Cooling	kW	6.76	8.55	10.3		12.0	13.9	13.7		
	Heating	kW	7.46	9.40	11.3		12.9	14.6	15.1		
Capacity control		%	12-100	11-100	10-100		7-100				
Casing colour			Ivory white (5Y7.5/1)				Ivory white (5Y7.5/1)				
Compressor	Type		Hermetically sealed scroll type				Hermetically sealed scroll type				
	Motor output	kW	(2.4×1)+(2.4×1)	(2.4×1)+(3.4×1)	(3.4×1)+(3.4×1)		(3.4×1)+(4.5×1)	(3.4×1)+(5.5×1)	(2.4×1)+(3.4×1)+(3.4×1)		
Airflow rate		ℓ/s	1,983+1,983	1,983+2,967	2,967+2,967		2,967+2,967	2,967+3,183	1,983+2,967+2,967		
		m³/min	119+119	119+178	178+178		178+178	178+191	119+178+178		
Dimensions (H×W×D)		mm	(1,657×930×765)+(1,657×930×765)				(1,657×930×765)+(1,657×930×765)		(1,657×930×765)+(1,657×930×765)+(1,657×930×765)		
Machine weight		kg	185+185				185+200		185+185+185		
Sound level		dB(A)	59				60	61			
Sound power		dB(A)	80				81	82			
Operation range	Cooling	°CDB	-5 to 49				-5 to 49				
	Heating	°CWB	-20 to 15.5				-20 to 15.5				
Refrigerant	Type		R-410A				R-410A				
	Charge	kg	6.9+6.9	6.9+7.0	7.0+7.0		7.0+7.4	7.0+7.6	6.9+7.0+7.0		
Piping connections	Liquid	mm	ϕ12.7 (Brazing)				ϕ15.9 (Brazing)				
	Gas	mm	ϕ28.6 (Brazing)				ϕ28.6 (Brazing)				

											
Model			**RXYQ24AHYMA**	**RXYQ26AHYMA**	**RXYQ28AHYMA**		**RXYQ30AHYMA**	**RXYQ32AHYMA**	**RXYQ34AHYMA**	**RXYQ36AHYMA**	
Combination units			**RXYQ8AYM**	**RXYQ8AYM**	**RXYQ8AYM**		**RXYQ8AYM**	**RXYQ8AYM**	**RXYQ10AYM**	**RXYQ12AYM**	
			RXYQ8AYM	**RXYQ8AYM**	**RXYQ8AYM**		**RXYQ10AYM**	**RXYQ12AYM**	**RXYQ12AYM**	**RXYQ12AYM**	
			RXYQ8AYM	**RXYQ10AYM**	**RXYQ12AYM**		**RXYQ12AYM**	**RXYQ12AYM**	**RXYQ12AYM**	**RXYQ12AYM**	
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz				3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz				
Cooling capacity		Btu/h	229,000	248,000	267,000		286,000	305,000	324,000	345,000	
		kW	67.2	72.8	78.3		83.9	89.4	95.0	101	
Heating capacity		Btu/h	256,000	278,000	299,000		321,000	341,000	365,000	386,000	
		kW	75.0	81.5	87.5		94.0	100	107	113	
Power consumption	Cooling	kW	15.5	17.2	19.0		20.7	22.6	24.2	26.1	
	Heating	kW	17.0	18.6	20.3		21.8	23.5	25.1	26.7	
Capacity control		%	7-100	5-100			5-100		4-100		
Casing colour			Ivory white (5Y7.5/1)				Ivory white (5Y7.5/1)				
Compressor	Type		Hermetically sealed scroll type				Hermetically sealed scroll type				
	Motor output	kW	(3.4×1)+(3.4×1)+(3.4×1)	(3.4×1)+(3.4×1)+(4.5×1)	(3.4×1)+(3.4×1)+(5.5×1)		(3.4×1)+(4.5×1)+(5.5×1)	(3.4×1)+(5.5×1)+(5.5×1)	(4.5×1)+(5.5×1)+(5.5×1)	(5.5×1)+(5.5×1)+(5.5×1)	
Airflow rate		ℓ/s	2,967+2,967+2,967		2,967+2,967+3,183		2,967+2,967+3,183	2,967+3,183+3,183		3,183+3,183+3,183	
		m³/min	178+178+178		178+178+191		178+178+191	178+191+191		191+191+191	
Dimensions (H×W×D)		mm	(1,657×930×765)+(1,657×930×765)+(1,657×930×765)				(1,657×930×765)+(1,657×930×765)+(1,657×930×765)				
Machine weight		kg	185+185+185	185+185+200			185+200+200		200+200+200		
Sound level		dB(A)	61		62		62	63		64	
Sound power		dB(A)	82		83		83	84		85	
Operation range	Cooling	°CDB	-5 to 49				-5 to 49				
	Heating	°CWB	-20 to 15.5				-20 to 15.5				
Refrigerant	Type		R-410A				R-410A				
	Charge	kg	7.0+7.0+7.0	7.0+7.0+7.4	7.0+7.0+7.6		7.0+7.4+7.6	7.0+7.6+7.6	7.4+7.6+7.6	7.6+7.6+7.6	
Piping connections	Liquid	mm	ϕ15.9 (Brazing)	ϕ19.1 (Brazing)			ϕ19.1 (Brazing)				
	Gas	mm	ϕ34.9 (Brazing)				ϕ34.9 (Brazing)			ϕ41.3 (Brazing)	

Note: Specifications are based on the following conditions;

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

VRV H Series Outdoor Units Heat Pump RXYQ-A

Standard Type

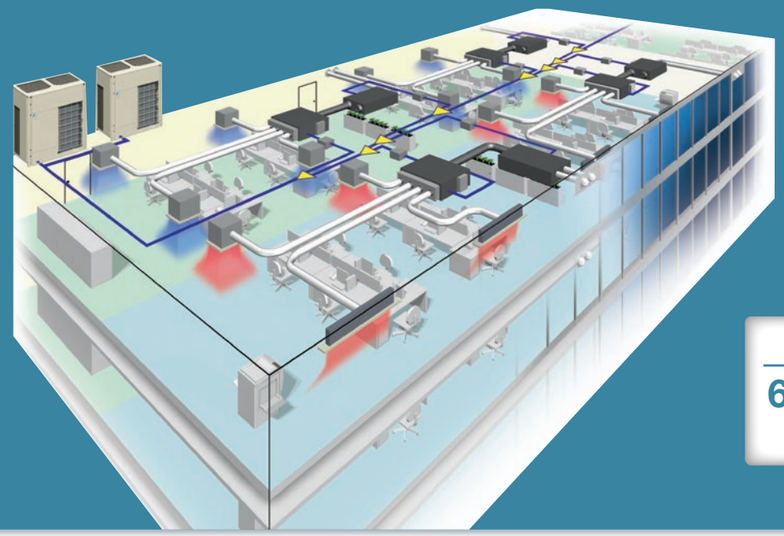
																		
Model			**RXYQ6AYM**	**RXYQ8AYM**	**RXYQ10AYM**	**RXYQ12AYM**	**RXYQ14AYM**	**RXYQ16AYM**		**RXYQ18AYM**	**RXYQ20AYM**	**RXYQ22AYMA**	**RXYQ24AYMA**	**RXYQ26AYMA**	**RXYQ28AYMA**	**RXYQ30AYMA**	**RXYQ32AYMA**
Combination units			–	–	–	–	–	–		–	–	RXYQ10AYM	RXYQ12AYM	RXYQ12AYM	RXYQ12AYM	RXYQ12AYM	RXYQ16AYM
			–	–	–	–	–	–		–	–	RXYQ12AYM	RXYQ12AYM	RXYQ14AYM	RXYQ16AYM	RXYQ18AYM	RXYQ16AYM
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz							3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz							
Cooling capacity		Btu/h	54,600	76,400	95,500	114,000	136,000	154,000		171,000	191,000	210,000	229,000	251,000	268,000	285,000	307,000
		kW	16.0	22.4	28.0	33.5	40.0	45.0		50.0	56.0	61.5	67.0	73.5	78.5	83.5	90.0
Heating capacity		Btu/h	61,400	85,300	107,000	128,000	154,000	171,000		191,000	215,000	235,000	256,000	281,000	299,000	319,000	341,000
		kW	18.0	25.0	31.5	37.5	45.0	50.0		56.0	63.0	69.0	75.0	82.5	87.5	93.5	100
Power consumption	Cooling	kW	3.38	5.17	6.84	8.70	10.7	12.9		15.3	17.7	15.5	17.4	19.4	21.6	24.0	25.8
	Heating	kW	3.73	5.67	7.23	8.91	11.0	12.6		14.9	17.1	16.1	17.8	19.9	21.5	23.8	25.2
Capacity control		%	25-100	20-100	13-100	12-100	11-100	10-100		10-100	7-100	6-100		5-100			
Casing colour			Ivory white (5Y7.5/1)							Ivory white (5Y7.5/1)							
Compressor	Type		Hermetically sealed scroll type							Hermetically sealed scroll type							
	Motor output	kW	2.4×1	3.4×1	4.5×1	5.5×1	(2.9×1)+(3.3×1)	(3.6×1)+(3.7×1)		(4.1×1)+(4.0×1)	(3.7×1)+(6.3×1)	(4.5×1)+(5.5×1)	(5.5×1)+(5.5×1)	(5.5×1)+(2.9×1)+(3.3×1)	(5.5×1)+(3.6×1)+(3.7×1)	(5.5×1)+(4.1×1)+(4.0×1)	(3.6×1)+(3.7×1)+(3.6×1)+(3.7×1)
Airflow rate		ℓ/s	1,983	2,967		3,183	4,283			4,200	4,950	2,967+3,183	3,183+3,183	3,183+4,283		3,183+4,200	4,283+4,283
		m³/min	119	178		191	257			252	297	178+191	191+191	191+257		191+252	257+257
Dimensions (H×W×D)		mm	1,657×930×765				1,657×1,240×765			1,657×1,240×765		(1,657×930×765)+(1,657×930×765)		(1,657×930×765)+(1,657×1,240×765)			(1,657×1,240×765)+(1,657×1,240×765)
Machine weight		kg	185		200		285			305	325	200+200		200+285		200+305	285+285
Sound level		dB(A)	56		57	59	60			61	65	61	62	63			
Sound power		dB(A)	77		78	80	81			82	86	82	83	84			
Operation range	Cooling	°CDB	-5 to 49							-5 to 49							
	Heating	°CWB	-20 to 15.5							-20 to 15.5							
Refrigerant	Type		R-410A							R-410A							
	Charge	kg	6.9	7.0	7.4	7.6	9.1	9.3		11.8		7.4+7.6	7.6+7.6	7.6+9.1	7.6+9.3	7.6+11.8	9.3+9.3
Piping connections	Liquid	mm	ϕ9.5 (Brazing)			ϕ12.7 (Brazing)				ϕ15.9 (Brazing)				ϕ19.1 (Brazing)			
	Gas	mm	ϕ19.1 (Brazing)		ϕ22.2 (Brazing)		ϕ28.6 (Brazing)			ϕ28.6 (Brazing)			ϕ 34.9 (Brazing)				

																	
Model			**RXYQ34AYMA**	**RXYQ36AYMA**	**RXYQ38AYMA**	**RXYQ40AYMA**	**RXYQ42AYMA**	**RXYQ44AYMA**		**RXYQ46AYMA**	**RXYQ48AYMA**	**RXYQ50AYMA**	**RXYQ52AYMA**	**RXYQ54AYMA**	**RXYQ56AYMA**	**RXYQ58AYMA**	**RXYQ60AYMA**
Combination units			**RXYQ16AYM**	**RXYQ16AYM**	**RXYQ12AYM**	**RXYQ12AYM**	**RXYQ10AYM**	**RXYQ12AYM**		**RXYQ14AYM**	**RXYQ16AYM**	**RXYQ16AYM**	**RXYQ16AYM**	**RXYQ18AYM**	**RXYQ18AYM**	**RXYQ18AYM**	**RXYQ20AYM**
			RXYQ18AYM	**RXYQ20AYM**	**RXYQ12AYM**	**RXYQ12AYM**	**RXYQ16AYM**	**RXYQ16AYM**		**RXYQ16AYM**	**RXYQ16AYM**	**RXYQ16AYM**	**RXYQ18AYM**	**RXYQ18AYM**	**RXYQ18AYM**	**RXYQ20AYM**	**RXYQ20AYM**
			–	–	**RXYQ14AYM**	**RXYQ16AYM**	**RXYQ16AYM**	**RXYQ16AYM**		**RXYQ16AYM**	**RXYQ16AYM**	**RXYQ18AYM**	**RXYQ18AYM**	**RXYQ18AYM**	**RXYQ20AYM**	**RXYQ20AYM**	**RXYQ20AYM**
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz							3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz							
Cooling capacity		Btu/h	324,000	345,000	365,000	382,000	403,000	423,000		444,000	461,000	478,000	495,000	512,000	532,000	553,000	573,000
		kW	95.0	101	107	112	118	124		130	135	140	145	150	156	162	168
Heating capacity		Btu/h	362,000	386,000	409,000	427,000	450,000	471,000		495,000	512,000	532,000	553,000	573,000	597,000	621,000	645,000
		kW	106	113	120	125	132	138		145	150	156	162	168	175	182	189
Power consumption	Cooling	kW	28.2	30.6	28.1	30.3	32.6	34.5		36.5	38.7	41.1	43.5	45.9	48.3	50.7	53.1
	Heating	kW	27.5	29.7	28.8	30.4	32.4	34.1		36.2	37.8	40.1	42.4	44.7	46.9	49.1	51.3
Capacity control		%	5-100	4-100			3-100			3-100						2-100	
Casing colour			Ivory white (5Y7.5/1)							Ivory white (5Y7.5/1)							
Compressor	Type		Hermetically sealed scroll type							Hermetically sealed scroll type							
	Motor output	kW	(3.6×1)+(3.7×1)+(4.1×1)+(4.0×1)	(3.6×1)+(3.7×1)+(3.7×1)+(6.3×1)	(5.5×1)+(5.5×1)+(2.9×1)+(3.3×1)	(5.5×1)+(5.5×1)+(3.6×1)+(3.7×1)	(4.5×1)+(3.6×1)+(3.7×1)+(3.6×1)+(3.7×1)	(5.5×1)+(3.6×1)+(3.7×1)+(3.6×1)+(3.7×1)		(2.9×1)+(3.3×1)+(3.6×1)+(3.7×1)+(3.6×1)+(3.7×1)	(3.6×1)+(3.7×1)+(3.6×1)+(3.7×1)+(3.6×1)+(3.7×1)	(3.6×1)+(3.7×1)+(3.6×1)+(3.7×1)+(4.1×1)+(4.0×1)	(3.6×1)+(3.7×1)+(4.1×1)+(4.0×1)+(4.1×1)+(4.0×1)	(4.1×1)+(4.0×1)+(4.1×1)+(4.0×1)+(4.1×1)+(4.0×1)	(4.1×1)+(4.0×1)+(4.1×1)+(4.0×1)+(3.7×1)+(6.3×1)	(4.1×1)+(4.0×1)+(3.7×1)+(6.3×1)+(3.7×1)+(6.3×1)	(3.7×1)+(6.3×1)+(3.7×1)+(6.3×1)+(3.7×1)+(6.3×1)
Airflow rate		ℓ/s	4,283+4,200	4,283+4,950	3,183+3,183+4,283		2,967+4,283+4,283	3,183+4,283+4,283		4,283+4,283+4,283		4,283+4,283+4,200	4,283+4,200+4,200	4,200+4,200+4,200	4,200+4,200+4,950	4,200+4,950+4,950	4,950+4,950+4,950
		m³/min	257+252	257+297	191+191+257		178+257+257	191+257+257		257+257+257		257+257+252	257+252+252	252+252+252	252+252+297	252+297+297	297+297+297
Dimensions (H×W×D)		mm	(1,657×1,240×765)+(1,657×1,240×765)		(1,657×930×765)+(1,657×930×765)+(1,657×1,240×765)		(1,657×930×765)+(1,657×1,240×765)+(1,657×1,240×765)			(1,657×1,240×765)+(1,657×1,240×765)+(1,657×1,240×765)							
Machine weight		kg	285+305	285+325	200+200+285		200+285+285			285+285+285		285+285+305	285+305+305	305+305+305	305+305+325	305+325+325	325+325+325
Sound level		dB(A)	64	66	64					65				66	68	69	70
Sound power		dB(A)	85	87	85					86				87	89	90	91
Operation range	Cooling	°CDB	-5 to 49							-5 to 49							
	Heating	°CWB	-20 to 15.5							-20 to 15.5							
Refrigerant	Type		R-410A							R-410A							
	Charge	kg	9.3+11.8		7.6+7.6+9.1	7.6+7.6+9.3	7.4+9.3+9.3	7.6+9.3+9.3		9.1+9.3+9.3	9.3+9.3+9.3	9.3+9.3+11.8	9.3+11.8+11.8	11.8+11.8+11.8			
Piping connections	Liquid	mm	ϕ19.1 (Brazing)							ϕ19.1 (Brazing)							
	Gas	mm	ϕ34.9 (Brazing)	ϕ41.3 (Brazing)						ϕ41.3 (Brazing)							

Note: Specifications are based on the following conditions;
- •Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- •Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.

•Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.
During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.
When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

Maximum Comfort via Simultaneous Cooling and Heating

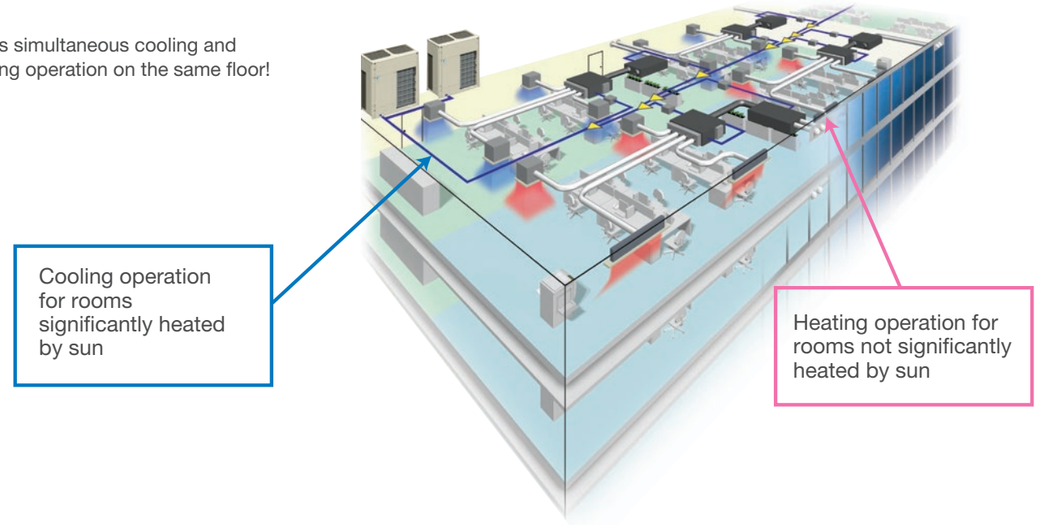


REYQ-TA

Heat Recovery

6 class-60 class
(16 kW) (168 kW)

Offers simultaneous cooling and heating operation on the same floor!

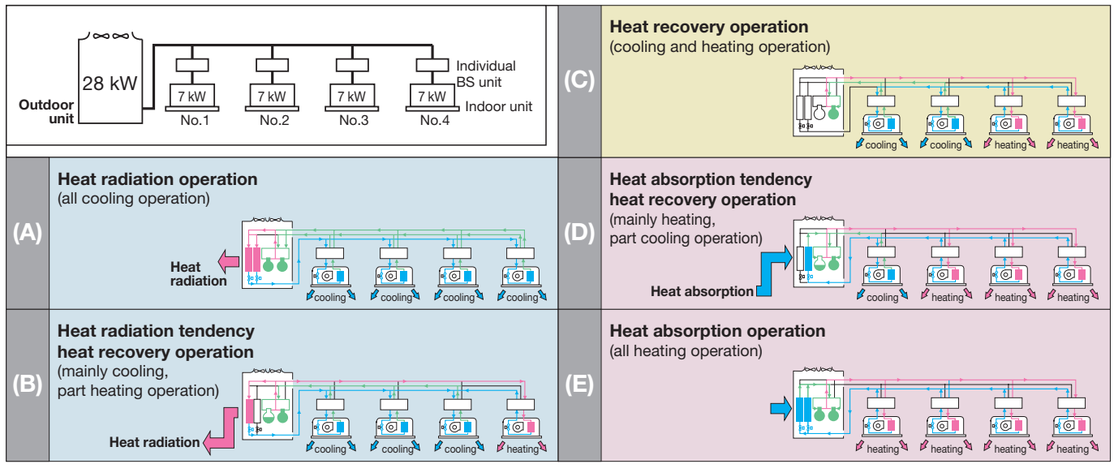


What is Heat Recovery Air Conditioner?

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

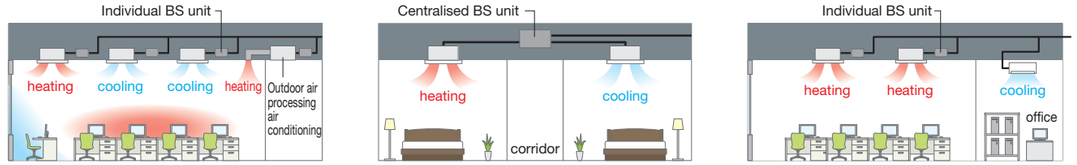
Operation mode

Heat recovery operation mode



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

Increasing demand for simultaneous cooling and heating needs



Winter season (Office Building)

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

Winter season (Hotel)

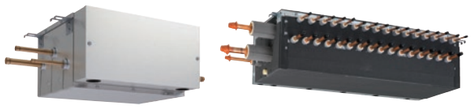
- Able to cater to individual heating and cooling requirement

Individual office

- Provides heating and annual cooling depending on space area

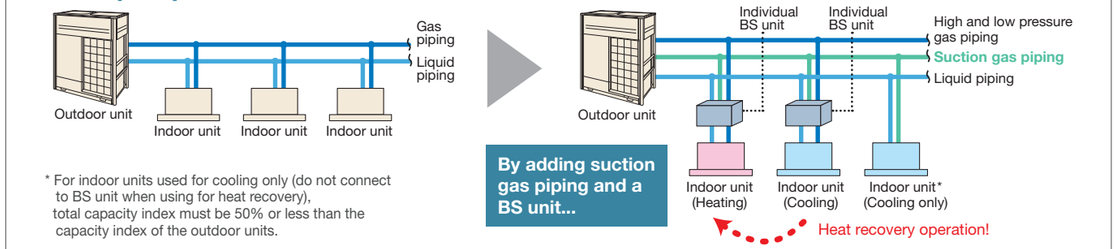
BS unit (Individual type/Centralised type)

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



Individual BS unit

Centralised BS unit



Advanced technologies for greater energy savings

By utilising advanced software technologies, ***VRV*** R Series is able to attain greater heights in energy savings and comfort.

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

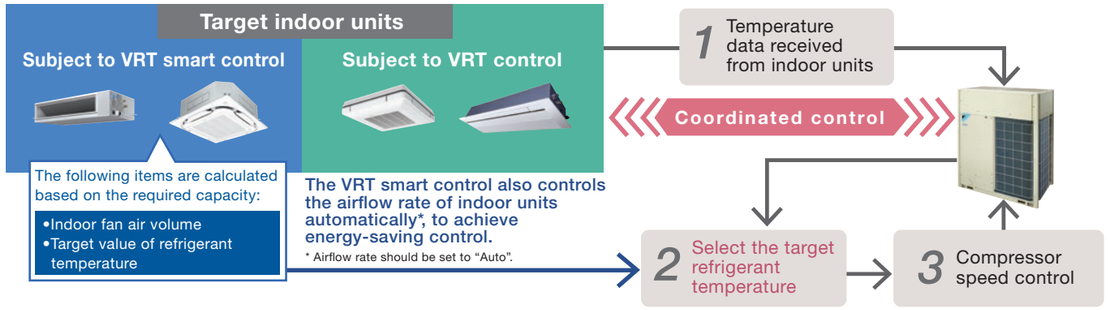
Software technology

Daikin's VRT Smart technology takes comfort and energy performance to the next level. Building on our variable refrigerant temperature technology which enables the evaporating temperature to adjust to meet the varying load, VRT Smart is now also able to automatically adjust the indoor unit airflow rate (Airside Control) to ensure optimal comfort and energy performance is delivered at all times.

VRT Smart Control Function movie

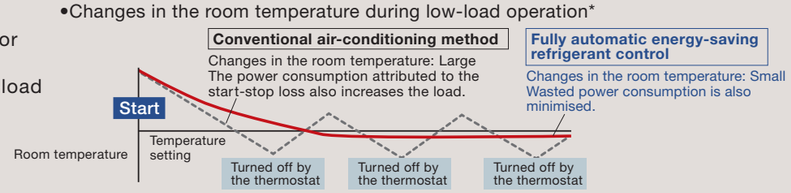
•Overview of the control (system control flow)

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



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

•Changes in the room temperature during low-load operation*



*Graph shown above is for illustration purposes only.

Note:
- For the classification of indoor units (VRT smart control and VRT control), refer to pages 47–48.
- If a system has indoor units subject to both VRT smart and VRT control, the system is operated under VRT control.
- If a system has both outdoor-air processing air conditioners and outdoor-air processing type indoor units, VRT smart control and VRT control are disabled only available during either all cooling operation or all heating operation.

Optimum utilisation of VRT Smart Control and VRT Control

VRT Smart and VRT control is most effective when all the indoor units operate under low load conditions in a similar manner. Low load conditions is the time when room temperature approaches set temperature. For this reason, please note the following to maximise efficacy.

•When selecting indoor units

Indoor units are installed in a system so that they operate largely under the same conditions. Energy efficiency decreases for the installation patterns indicated below.
Example:

1) A load imbalance occurs because an indoor unit on the same system is installed near the perimeter of the room or in the vicinity of a room entrance.
2) Different operating hours for indoor units.
3) Energy efficiency decreases when the set temperature of a specified indoor unit is set to an extreme during cooling operation. E.g. 18°C

Enhanced lineup

Wider capacity range from 6 to 60 class

With its enhanced lineup of 2 types-High-COP and Standard types, ***VRV*** R series Heat Recovery outdoor units offer a wider capacity range from 6 class (16 kW) to 60 class (168 kW) to meet an ever wider variety of needs.

•Single Outdoor Unit

VRV Ⅲ

8, 10, 12, 14, 16 class

From 8 to 16 class

VRV R SERIES

6, 8, 10, 12 class — 14, 16, 18, 20 class

From 6 to 20 class

•Multiple Outdoor Units

VRV Ⅲ

From 18 to 48 class

1 type only

VRV R SERIES

From 12 to 60 class

2 types of High-COP type and Standard type

Lineup

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

Ease of installation

Compact & lightweight design

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

***VRV* Ⅲ**
12 class(33.5 kW)

***VRV* R SERIES**
12 class(33.5 kW)

	***VRV* Ⅲ** 12 class (33.5 kW)	***VRV* R SERIES** 12 class(33.5 kW)	
Installation Space	0.99 m²	0.71 m²	28% Decrease
Product Weight	331 kg	230 kg	30% Decrease

Comfort

Lower operation sound

Improve heat exchanger efficency, helps to reduced operation sound.

Sound level(dB(A))

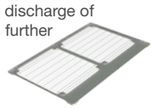
	6/8 class	10 class	12 class	14 class	16 class
***VRV* Ⅲ**	58	58	60	62	63
***VRV* R SERIES**	56	57	59	60	61

1-2 dB(A) reduction than conventional model

Large airflow, high static pressure and quiet technology

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

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

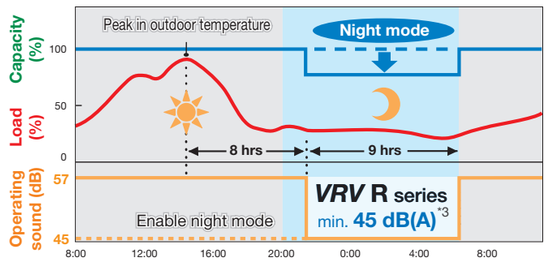


Streamlined scroll fan
The sharp edge of each fan blade has a certain curvature, reducing both the vibration and the pressure loss.

Nighttime quiet operation function

Outdoor PCB automatically memorises the time when the peak outdoor temperature appears. It will enable quiet operation mode after 8 h*1, and return to normal mode after it keeps for 9 h*2.

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



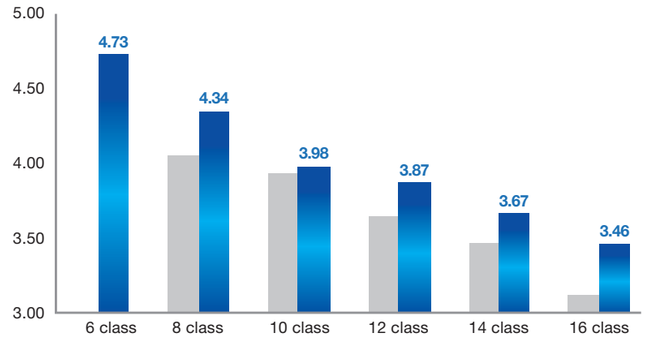
Note: · This function is available in setting at site.
· The operating sound in quiet operation mode is the actual value measured by our company.
· The relationship of outdoor temperature (load) and time shown above is just an example.

Energy saving

Higher Coefficient of Performance (COP)

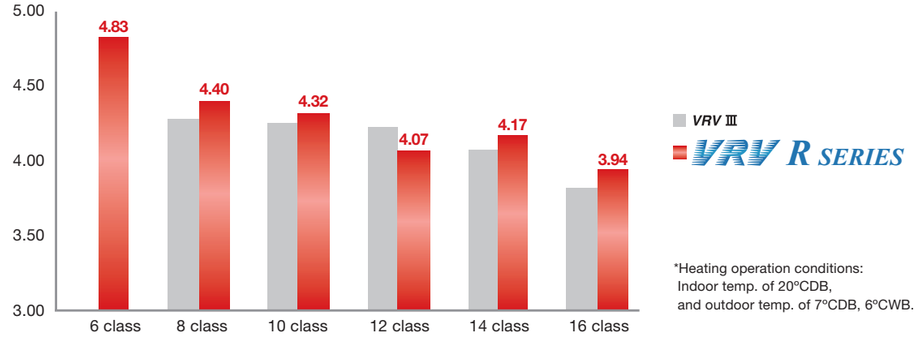
It has become essential for air conditioning manufacturers to develop systems that provide high energy savings. We at Daikin have made great efforts in this field, and the ***VRV*** R series delivers highly efficient performance, contributing to high energy savings.

Cooling Operation COP



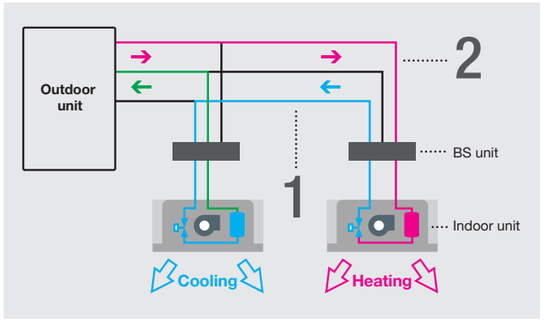
*Cooling operation conditions:
Indoor temp. of 27°CDB,19°CWB, and outdoor temp. of 35°CDB.

Heating Operation COP



*Heating operation conditions:
Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

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



1 The (cold) waste heat from heating is used for the cooling operation.

2 The waste heat from cooling is used to generate heat that is needed for heating operation while conserving electricity.

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

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

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

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

Conventional model (*VRV* Ⅲ)

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

VRV R SERIES

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

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

Indoor and outdoor heat balance (conceptual image)

[Indoor unit side]

Cooling load (heat absorption)

Heating load (heat radiation)

Heat recovery

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

[Outdoor unit]

Conventional model (*VRV* Ⅲ)

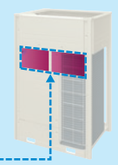
The condenser is large, resulting in unnecessary heat radiation.

Heat loss

VRV R SERIES

The optimal condensation capacity can be attained.

Heat loss control



Condenser Evaporator

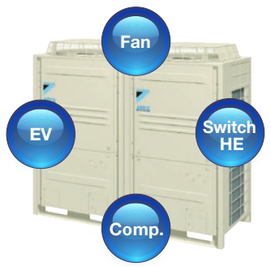
Heat Recovery Link control to reduce the heat loss

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

***VRV* Ⅲ**

Refrigerant circuit is balanced based on the independent control of each elements

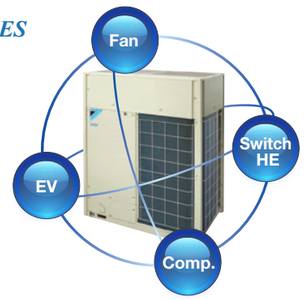
⇒ occurred heat loss



VRV R SERIES

Interlocking operation with each elements in order to reduce energy

⇒ Improvement of Heat recovery

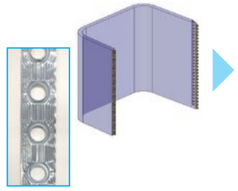


Advanced technologies achieve excellent performance

Highly integrated heat exchanger

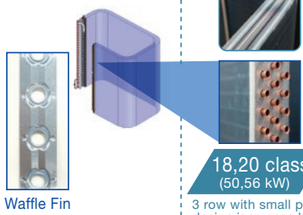
Improve performance by increasing heat exchanger area while maintaining the same installation space.

***VRV* Ⅲ**



Fine Louvre Fin

VRV R SERIES



Waffle Fin

18,20 class (50,56 kW)

3 row with small pipe design,increases heat transfer efficiency

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

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

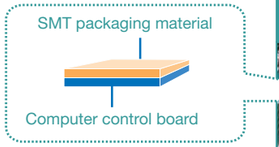
	Heat exchanger area	Contribution of COP (cooling)
16 class (45 kW)	24%UP	108.5%

Various advanced control main PC board

SMT* packaging technology

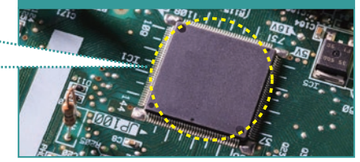
SMT packaging technology adopted by the whole computer control panel improves the anti-clutter performance.

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



*SMT: Surface mounted technology

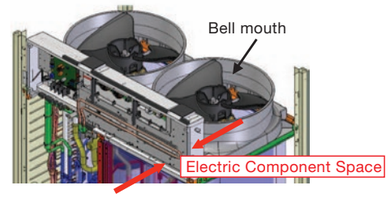
Computer control board surface adopting SMT packaging technology



Refrigerant cooling technology, ensures stability of PCB temperature

Improved inner design to increase smooth airflow

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



***VRV* Ⅲ**

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

VRV R SERIES

Control board failure ratio at stable operation is reduced.

Improve reliability at high ambient temperature

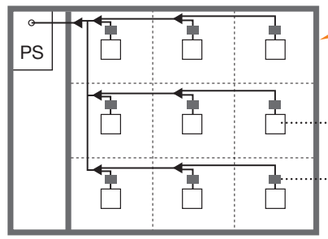
It is possible to cool the inverter power module stability even at high ambient temperature. This helps to keep air-conditioning capacity and also reduces failure ratio.

Individual and centralised BS unit allow greater design flexibility.

Individual BS unit

BSQ100AV1
BSQ160AV1
BSQ250AV1

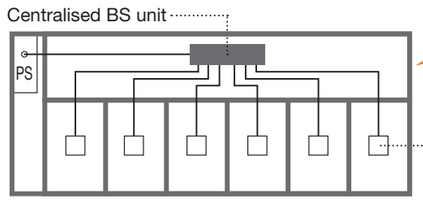
- Compact and flexible installation
- Flexible design
- Low noise



Recommended for large spaces or areas subject to frequent layout change

Centralised BS unit

BS4Q14AV1
BS6Q14AV1
BS8Q14AV1
BS10Q14AV1
BS12Q14AV1
BS16Q14AV1



Recommended for areas which have many small rooms

- Enhanced Line up

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

- Compact and lightweight design

Compared to conventional BS unit (6 branch)

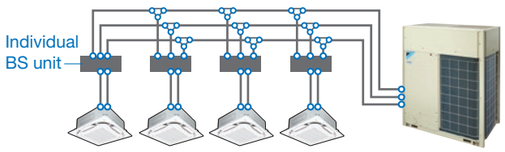
BS unit size **reduced by 65%**

BS unit weight **reduced by 73%**

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

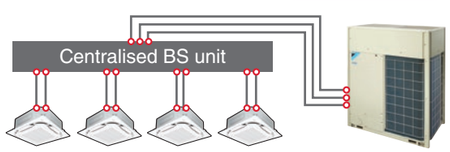
Individual BS unit

58 connecting point



Centralised BS unit

22 connecting point



*Centralised BS unit requires drain pipe

Greater design flexibility achieved by increasing the connection capacity range

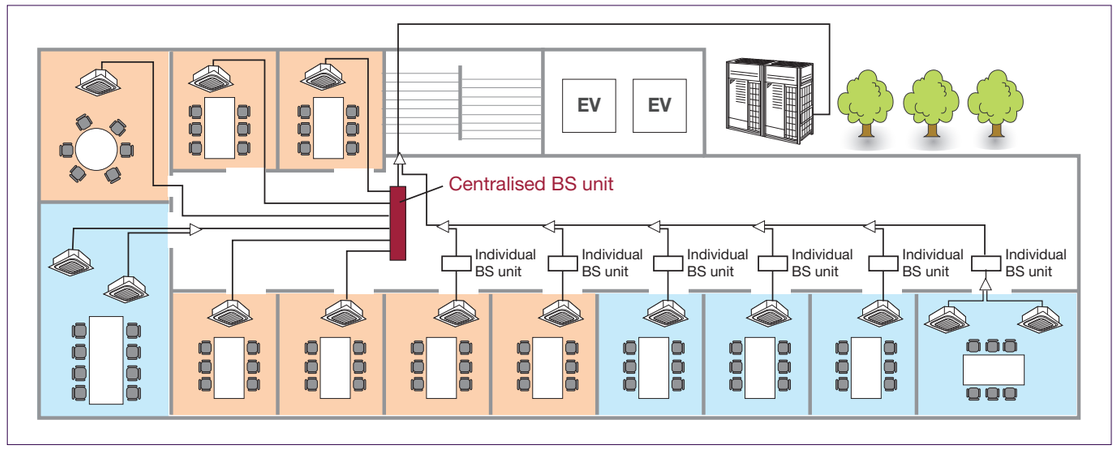
Centralised BS unit

Increased from
2.2–16.0 kW
(Up to 11.2 kW in the conventional system)

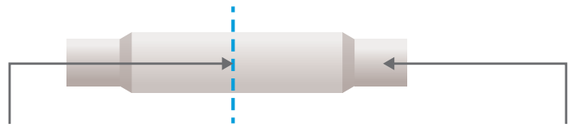
Centralised BS unit

By merging two branches
Adaptable up to
28.0 kW

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



Faster installation of centralised BS unit thanks to open connection



Time saving!

Cut and braze the pipe
(for indoor units bigger or equal to 7.1 kW (63 class))

No need to cut the pipe before brazing
(for indoor units smaller or equal to 5.6 kW (50 class))

Lower transient sound

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

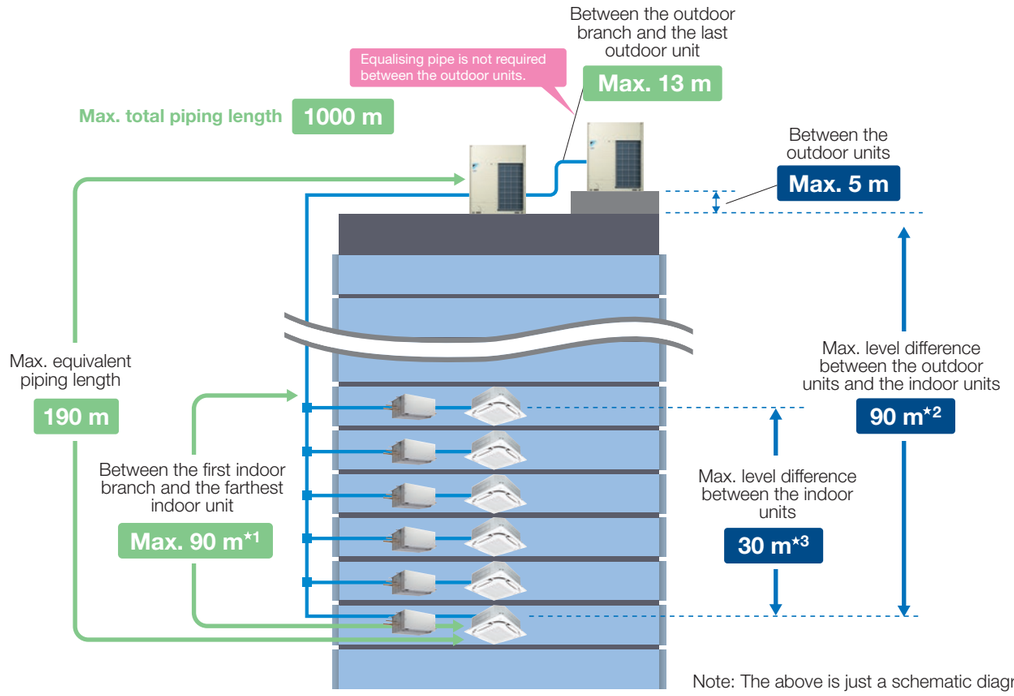
Maximum transient sound		Centralised BS unit						Individual BS unit		
		4 branch	6 branch	8 branch	10 branch	12 branch	16 branch	100 type	160 type	250 type
New BS units	**Sound level (dB(A))***	**45**	**47**	**47**	**48**	**48**	**49**	**40**	**45**	**45**
Conventional BS units	Sound level (dB(A))*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

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

More options for equipment placement

Long piping length

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



Note: The above is just a schematic diagram.

Maximum allowable piping length	Actual piping length (Equivalent)	**165** m (**190** m)
	Total piping length	**1000** m
	Between the first indoor branch and the farthest indoor unit	**90** m★1
	Between the outdoor branch and the last outdoor unit (Equivalent)	**10** m (**13** m)
Maximum allowable level difference	Between the outdoor units (Multiple use)	**5** m
	Between the indoor units	**30** m★3
	Between the outdoor units and the indoor units	**90** m★2

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

Connection ratio

Connection capacity at maximum is 200%.

Connection ratio
50%–200%

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

Conditions of *VRV* indoor unit connection capacity

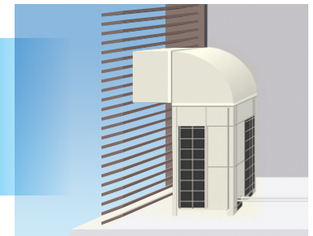
Applicable ***VRV*** indoor units	FXDQ, FXSQ, FXMQ-PA, FXAQ models	Other ***VRV*** indoor unit models*1
Single outdoor units	200%	**200%**
Double outdoor units		**160%**
Triple outdoor units		**130%**

*1 For the FXF(S)Q25 models, maximum connection ratio is 130% for the entire range of outdoor units.
Note: If the operational capacity of indoor units is more than 130%, low airflow operation is enforced in all the indoor units.
*Refer to page 46 for outdoor unit combination details.

High external static pressure

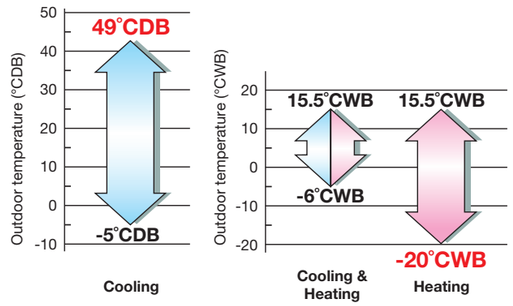
VRV R series outdoor unit has been achieved high external static pressure up to 78.4 Pa, ensuring the efficient heat dissipation and stable operation of equipment in either hierarchical or intensive arrangement.

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



Wide operation temperature range

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

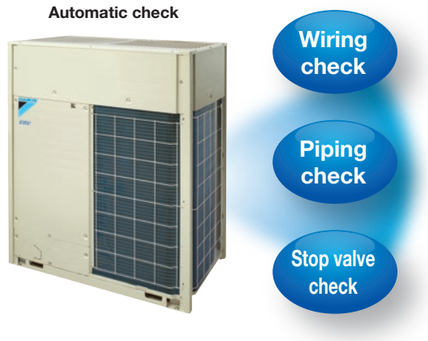


Multiple advanced features ensuring more accurate test operation and stable system

Efficient automatic test operation

Daikin ***VRV*** R series incorporates a simplified and efficient test operation function, not only greatly accelerating the installation process, but effectively improving the field setting quality as well.

- Automatically checks the wirings between outdoor units and indoor units to confirm whether there is a defective wiring.
- Optimises operations to suit field piping lengths.
- Automatically check whether the stop valve in each outdoor unit is in normal status to ensure the smooth operation of air conditioning system.



Simplified commissioning and after-sales service

Function of information display by luminous digital tube

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

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

Compliant with the RoHS Directive*

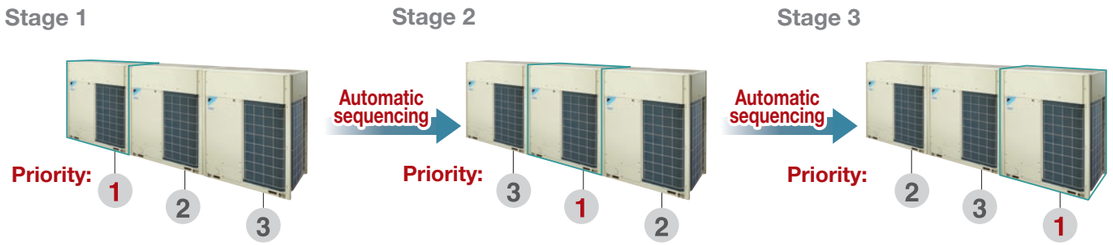
We have been making efforts to facilitate the transition to using RoHS Directive*-compliant materials for system parts.

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

Outdoor unit sequencing technology

Automatic sequencing operation

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



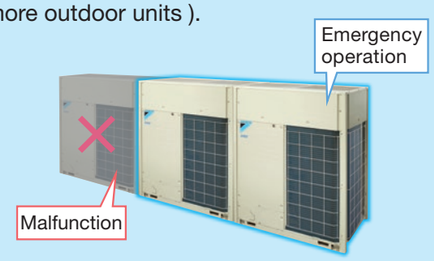
Double backup operation functions responding resiliently to various unexpected situations

Double backup operation functions

Daikin ***VRV*** R series 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 air conditioning equipment.
In the event of a failure, emergency operation can be conveniently enabled to allow the remaining system to operate in a limited fashion.

Unit backup operation function

If 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).



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 REYQ14-20TAY1 models).

VRV R Series Outdoor Units Heat Recovery

Wider capacity range from 6 to 60 class

- With its enhanced lineup of 2 types-High-COP and Standard types, ***VRV*** R series Heat Recovery outdoor units offer a wider capacity range from 6 class (16 kW) to 60 class (168 kW) to meet an ever wider variety of needs.
- The single outdoor unit has only 2 different shapes and dimensions, not only simplifying the design process, but also bringing the system design flexibility to a new level.

High-COP Type

●Double Outdoor Units

12, 14, 16, 18, 20 class

REYQ12TAHY1 REYQ18TAHY1
REYQ14TAHY1 REYQ20TAHY1
REYQ16TAHY1

●Triple Outdoor Units

22, 24, 26, 28, 30, 32, 34, 36 class

REYQ22TAHY1 REYQ30TAHY1
REYQ24TAHY1 REYQ32TAHY1
REYQ26TAHY1 REYQ34TAHY1
REYQ28TAHY1 REYQ36TAHY1

Standard Type

●Single Outdoor Units

6, 8, 10, 12 class

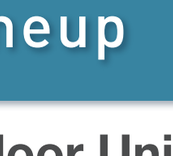
REYQ6TAY1
REYQ8TAY1
REYQ10TAY1
REYQ12TAY1

14, 16, 18, 20 class

REYQ14TAY1
REYQ16TAY1
REYQ18TAY1
REYQ20TAY1

●Double Outdoor Units

22, 24 class

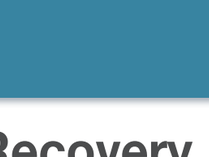


REYQ22TAY1
REYQ24TAY1

26, 28, 30 class

REYQ26TAY1
REYQ28TAY1
REYQ30TAY1

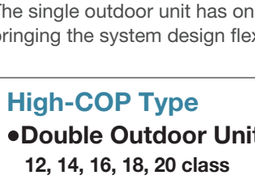
32, 34, 36 class



REYQ32TAY1
REYQ34TAY1
REYQ36TAY1

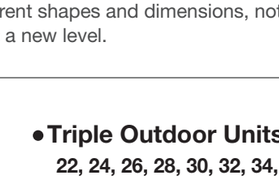
●Triple Outdoor Units

38, 40 class



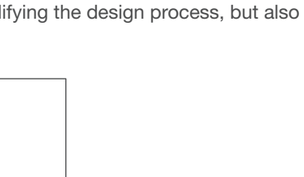
REYQ38TAY1
REYQ40TAY1

42, 44 class



REYQ42TAY1
REYQ44TAY1

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



REYQ46TAY1 REYQ52TAY1 REYQ58TAY1
REYQ48TAY1 REYQ54TAY1 REYQ60TAY1
REYQ50TAY1 REYQ56TAY1

Lineup

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

Outdoor Unit Combinations

High-COP Type

class	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units*2	Maximum number of connectable indoor units*2
12	32.0	300	REYQ12TAH	REYQ6TA x 2	BHFP26P90	150 to 390 (480)	19 (24)
14	38.4	350	REYQ14TAH	REYQ6TA + REYQ8TA		175 to 455 (560)	22 (28)
16	44.8	400	REYQ16TAH	REYQ8TA x 2		200 to 520 (640)	26 (32)
18	50.4	450	REYQ18TAH	REYQ8TA + REYQ10TA		225 to 585 (720)	29 (36)
20	55.9	500	REYQ20TAH	REYQ8TA + REYQ12TA		250 to 650 (800)	32 (40)
22	60.8	550	REYQ22TAH	REYQ6TA + REYQ8TA x 2	BHFP26P136	275 to 715 (715)	35 (35)
24	67.2	600	REYQ24TAH	REYQ8TA x 3		300 to 780 (780)	39 (39)
26	72.8	650	REYQ26TAH	REYQ8TA x 2 + REYQ10TA		325 to 845 (845)	42 (42)
28	78.3	700	REYQ28TAH	REYQ8TA x 2 + REYQ12TA		350 to 910 (910)	45 (45)
30	83.9	750	REYQ30TAH	REYQ8TA + REYQ10TA + REYQ12TA		375 to 975 (975)	48 (48)
32	89.4	800	REYQ32TAH	REYQ8TA+ REYQ12TA x 2		400 to 1,040 (1,040)	52 (52)
34	95.0	850	REYQ34TAH	REYQ10TA+ REYQ12TA x 2		425 to 1,105 (1,105)	55 (55)
36	101	900	REYQ36TAH	REYQ12TA x 3		450 to 1,170 (1,170)	58 (58)

Note: *1. The outdoor unit multi connection piping kit (separately sold) is required for multiple connection.
*2. Values inside brackets are based on connection of indoor units rated at maximum capacity, 200% for single outdoor units, 160% for double outdoor units, and 130% for triple outdoor units. Refer to page 42 for note on connection capacity of indoor units.

Standard Type

class	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units*2	Maximum number of connectable indoor units*2
6	16.0	150	REYQ6TA	REYQ6TA	–	75 to 195 (300)	9 (15)
8	22.4	200	REYQ8TA	REYQ8TA	–	100 to 260 (400)	13 (20)
10	28.0	250	REYQ10TA	REYQ10TA	–	125 to 325 (500)	16 (25)
12	33.5	300	REYQ12TA	REYQ12TA	–	150 to 390 (600)	19 (30)
14	40.0	350	REYQ14TA	REYQ14TA	–	175 to 455 (700)	22 (35)
16	45.0	400	REYQ16TA	REYQ16TA	–	200 to 520 (800)	26 (40)
18	50.0	450	REYQ18TA	REYQ18TA	–	225 to 585 (900)	29 (45)
20	56.0	500	REYQ20TA	REYQ20TA	–	250 to 650 (1,000)	32 (50)
22	61.5	550	REYQ22TA	REYQ10TA + REYQ12TA	BHFP26P90	275 to 715 (880)	35 (44)
24	67.0	600	REYQ24TA	REYQ12TA × 2		300 to 780 (960)	39 (48)
26	73.5	650	REYQ26TA	REYQ12TA + REYQ14TA		325 to 845 (1,040)	42 (52)
28	78.5	700	REYQ28TA	REYQ12TA + REYQ16TA		350 to 910 (1,120)	45 (56)
30	83.5	750	REYQ30TA	REYQ12TA + REYQ18TA		375 to 975 (1,200)	48 (60)
32	90.0	800	REYQ32TA	REYQ16TA × 2		400 to 1,040 (1,280)	52 (64)
34	95.0	850	REYQ34TA	REYQ16TA + REYQ18TA		425 to 1,105 (1,360)	55 (64)
36	101	900	REYQ36TA	REYQ16TA + REYQ20TA		450 to 1,170 (1,440)	58 (64)
38	107	950	REYQ38TA	REYQ12TA × 2 + REYQ14TA	BHFP26P136	475 to 1,235 (1,235)	61 (61)
40	112	1,000	REYQ40TA	REYQ12TA × 2 + REYQ16TA		500 to 1,300 (1,300)	64 (64)
42	118	1,050	REYQ42TA	REYQ10TA + REYQ16TA × 2		525 to 1,365 (1,365)	
44	124	1,100	REYQ44TA	REYQ12TA + REYQ16TA × 2		550 to 1,430 (1,430)	
46	130	1,150	REYQ46TA	REYQ14TA + REYQ16TA × 2		575 to 1,495 (1,495)	
48	135	1,200	REYQ48TA	REYQ16TA × 3		600 to 1,560 (1,560)	
50	140	1,250	REYQ50TA	REYQ16TA × 2 + REYQ18TA		625 to 1,625 (1,625)	
52	145	1,300	REYQ52TA	REYQ16TA + REYQ18TA × 2		650 to 1,690 (1,690)	
54	150	1,350	REYQ54TA	REYQ18TA × 3		675 to 1,755 (1,755)	
56	156	1,400	REYQ56TA	REYQ18TA × 2 + REYQ20TA		700 to 1,820 (1,820)	
58	162	1,450	REYQ58TA	REYQ18TA + REYQ20TA × 2		725 to 1,885 (1,885)	
60	168	1,500	REYQ60TA	REYQ20TA × 3		750 to 1,950 (1,950)	

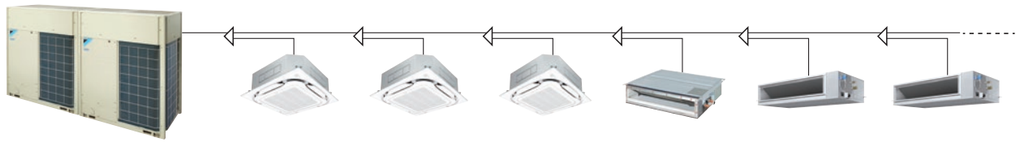
Note: *1. For multiple connection of 22 class systems and above, the outdoor unit multi connection piping kit (separately sold) is required.
*2. Values inside brackets are based on connection of indoor units rated at maximum capacity, 200% for single outdoor units, 160% for double outdoor units, and 130% for triple outdoor units. Refer to page 42 for note on connection capacity of indoor units.

Enhanced range of choices

● New lineup ▲ Indoor units subject to VRT smart control

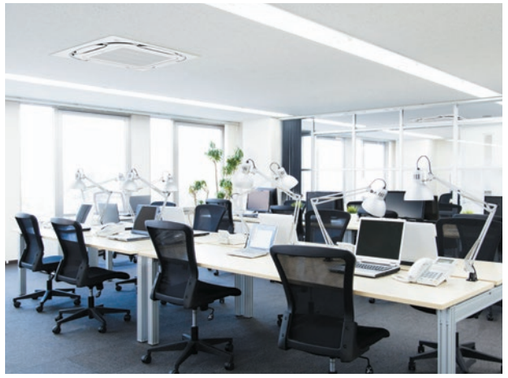
Type	Model Name		20	25	32	40	50	63	71	80	100	125	140	145	160	180	200	250
		Capacity Range(kW)	2.2	2.8	3.6	4.5	5.6	7.1	8	9	11.2	14	16	16.2	18	20	22.4	28
		Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	145	160	180	200	250
Ceiling Mounted Cassette (Round Flow with Sensing)	FXFSQ-AVM ▲			●	●	●	●	●		●	●	●	●					
Ceiling Mounted Cassette (Round Flow)	FXFQ-PVE			●	●	●	●	●		●	●	●						
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-A2VEB		●	●	●	●	●											
4-Way Flow Ceiling Suspended	FXUQ-AVEB								●		●							
Ceiling Mounted Cassette (Double Flow)	New FXCQ-AVM ▲		●	●	●	●	●	●		●		●						
Ceiling Mounted Cassette (Single Flow)	FXEQ-AV36		●	●	●	●	●	●										
Slim Ceiling Mounted Duct (Compact Series)	FXDQ-TV1B(A) ▲		●	●	●	●	●	●										
Slim Ceiling Mounted Duct (Standard Series)	FXDQ-PDVE ▲	(700mm width type)	●	●	●													
	FXDQ-NDVE ▲	(900 / 1100mm width type)				●	●	●										
Ceiling Concealed Duct	FXDYQ-MAV1									●	●	●		●				
Middle Static Pressure Ceiling Mounted Duct	FXSQ-PAVE ▲		●	●	●	●	●	●		●	●	●	●					
Ceiling Mounted Duct	FXMQ-PAVE ▲		●	●	●	●	●	●		●	●	●	●					
	FXMQ-PV1A														●	●	●	●
Outdoor-Air Processing Unit	FXMQ-MFV1											●					●	●
Ceiling Suspended	FXHQ-MAVE				●			●			●							
	New FXHQ-AVM											●	●					
Wall Mounted	New FXAQ-AVM ▲		●	●	●	●	●	●										
Floor Standing	FXLQ-MAVE		●	●	●	●	●	●										
Concealed Floor Standing	FXNQ-MAVE		●	●	●	●	●	●										
Heat Reclaim Ventilator with DX-Coil and Humidifier	VKM-GA(M)V1		Airflow rate 500-1000 m³/h															
Heat Reclaim Ventilator	VAM-GJVE		Airflow rate 150-2000 m³/h															

Note: For indoor units without 'VRT Smart', the standard 'VRT' control is available (excludes Heat Reclaim Ventilators & Outdoor-Air Processing Unit).



Max. 64 indoor units

- If a system has indoor units subject to both VRT smart and VRT control, the system is operated under VRT control.
- If a system has both outdoor-air processing air conditioners and outdoor-air processing type indoor units, VRT smart control and VRT control are disabled.



VRV R Series Outdoor Units Heat Recovery REYQ-TA

High-COP Type

													
Model			**REYQ12TAHY1**	**REYQ14TAHY1**	**REYQ16TAHY1**	**REYQ18TAHY1**	**REYQ20TAHY1**		**REYQ22TAHY1**	**REYQ24TAHY1**	**REYQ26TAHY1**	**REYQ28TAHY1**	**REYQ30TAHY1**
Combination units			**REYQ6TAY1**	**REYQ6TAY1**	**REYQ8TAY1**	**REYQ8TAY1**	**REYQ8TAY1**		**REYQ6TAY1**	**REYQ8TAY1**	**REYQ8TAY1**	**REYQ8TAY1**	**REYQ8TAY1**
			REYQ6TAY1	**REYQ8TAY1**	**REYQ8TAY1**	**REYQ10TAY1**	**REYQ12TAY1**		**REYQ8TAY1**	**REYQ8TAY1**	**REYQ8TAY1**	**REYQ8TAY1**	**REYQ10TAY1**
			–	–	–	–	–		**REYQ8TAY1**	**REYQ8TAY1**	**REYQ10TAY1**	**REYQ12TAY1**	**REYQ12TAY1**
Power supply			3-phase 4-wire system, 380-415 V, 50 Hz						3-phase 4-wire system, 380-415 V, 50 Hz				
Cooling capacity		Btu/h	109,000	131,000	153,000	172,000	191,000		207,000	229,000	248,000	267,000	286,000
		kW	32.0	38.4	44.8	50.4	55.9		60.8	67.2	72.8	78.3	83.9
Heating capacity		Btu/h	123,000	147,000	171,000	193,000	213,000		232,000	256,000	278,000	299,000	321,000
		kW	36.0	43.0	50.0	56.5	62.5		68.0	75.0	81.5	87.5	94.0
Power consumption	Cooling	kW	6.76	8.54	10.3	12.2	13.8		13.7	15.5	17.4	19.0	20.9
	Heating	kW	7.46	9.41	11.4	13.0	14.9		15.1	17.0	18.7	20.6	22.2
Capacity control		%	10-100			8-100			7-100		6-100		5-100
Casing colour			Ivory white (5Y7.5/1)						Ivory white (5Y7.5/1)				
Compressor	Type		Hermetically sealed scroll type						Hermetically sealed scroll type				
	Motor output	kW	(2.3×1)+(2.3×1)	(2.3×1)+(3.3×1)	(3.3×1)+(3.3×1)	(3.3×1)+(4.0×1)	(3.3×1)+(4.9×1)		(2.3×1)+(3.3×1)+(3.3×1)	(3.3×1)+(3.3×1)+(3.3×1)	(3.3×1)+(3.3×1)+(4.0×1)	(3.3×1)+(3.3×1)+(4.9×1)	(3.3×1)+(4.0×1)+(4.9×1)
Airflow rate		ℓ/s	1,983+1,983	1,983+2,633	2,633+2,633	2,633+2,800	2,633+3,000		1,983+2,633+2,633	2,633+2,633+2,633	2,633+2,633+2,800	2,633+2,633+3,000	2,633+2,800+3,000
		m³/min	119+119	119+158	158+158	158+168	158+180		119+158+158	158+158+158	158+158+168	158+158+180	158+168+180
Dimensions (H×W×D)		mm	(1,657×930×765)+(1,657×930×765)						(1,657×930×765)+(1,657×930×765)+(1,657×930×765)				
Machine weight		kg	215+215			215+230			215+215+215		215+215+230		215+230+230
Sound level		dB(A)	59			60	61		61			62	
Sound power		dB(A)	80			81	82		82			83	
Operation range	Cooling	°CDB	-5 to 49						-5 to 49				
	Heating	°CWB	-20 to 15.5						-20 to 15.5				
	Cooling & Heating	°CWB	-6 to 15.5						-6 to 15.5				
Refrigerant	Type		R-410A						R-410A				
	Charge	kg	9.7+9.7			9.7+9.8	9.7+9.9		9.7+9.7+9.7		9.7+9.7+9.8	9.7+9.7+9.9	9.7+9.8+9.9
Piping connections	Liquid	mm	ϕ12.7 (Brazing)			ϕ15.9 (Brazing)			ϕ15.9 (Brazing)		ϕ19.1 (Brazing)		
	Gas	mm	ϕ28.6 (Brazing)						ϕ28.6 (Brazing)	ϕ34.9 (Brazing)			
	High and low pressure gas	mm	ϕ19.1 (Brazing)	ϕ22.2 (Brazing)			ϕ28.6 (Brazing)		ϕ28.6 (Brazing)				

					
Model			**REYQ32TAHY1**	**REYQ34TAHY1**	**REYQ36TAHY1**
Combination units			**REYQ8TAY1**	**REYQ10TAY1**	**REYQ12TAY1**
			REYQ12TAY1	**REYQ12TAY1**	**REYQ12TAY1**
			REYQ12TAY1	**REYQ12TAY1**	**REYQ12TAY1**
Power supply			3-phase 4-wire system, 380-415 V, 50 Hz		
Cooling capacity		Btu/h	305,000	324,000	345,000
		kW	89.4	95.0	101
Heating capacity		Btu/h	341,000	365,000	386,000
		kW	100	107	113
Power consumption	Cooling	kW	22.5	24.4	26.0
	Heating	kW	24.1	25.7	27.7
Capacity control		%	5-100		
Casing colour			Ivory white (5Y7.5/1)		
Compressor	Type		Hermetically sealed scroll type		
	Motor output	kW	(3.3×1)+(4.9×1)+(4.9×1)	(4.0×1)+(4.9×1)+(4.9×1)	(4.9×1)+(4.9×1)+(4.9×1)
Airflow rate		ℓ/s	2,633+3,000+3,000	2,800+3,000+3,000	3,000+3,000+3,000
		m³/min	158+180+180	168+180+180	180+180+180
Dimensions (H×W×D)		mm	(1,657×930×765)+(1,657×930×765)+(1,657×930×765)		
Machine weight		kg	215+230+230	230+230+230	
Sound level		dB(A)	63		64
Sound power		dB(A)	84		85
Operation range	Cooling	°CDB	-5 to 49		
	Heating	°CWB	-20 to 15.5		
	Cooling & Heating	°CWB	-6 to 15.5		
Refrigerant	Type		R-410A		
	Charge	kg	9.7+9.9+9.9	9.8+9.9+9.9	9.9+9.9+9.9
Piping connections	Liquid	mm	ϕ19.1 (Brazing)		
	Gas	mm	ϕ34.9 (Brazing)		ϕ41.3 (Brazing)
	High and low pressure gas	mm	ϕ28.6 (Brazing)		

Note: Specifications are based on the following conditions;

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

VRV R Series Outdoor Units Heat Recovery REYQ-TA

Standard Type

																	
Model			**REYQ6TAY1**	**REYQ8TAY1**	**REYQ10TAY1**	**REYQ12TAY1**	**REYQ14TAY1**	**REYQ16TAY1**		**REYQ18TAY1**	**REYQ20TAY1**	**REYQ22TAY1**	**REYQ24TAY1**	**REYQ26TAY1**	**REYQ28TAY1**	**REYQ30TAY1**	**REYQ32TAY1**
Combination units			–	–	–	–	–	–		–	–	**REYQ10TAY1**	**REYQ12TAY1**	**REYQ12TAY1**	**REYQ12TAY1**	**REYQ12TAY1**	**REYQ16TAY1**
			–	–	–	–	–	–		–	–	**REYQ12TAY1**	**REYQ12TAY1**	**REYQ14TAY1**	**REYQ16TAY1**	**REYQ18TAY1**	**REYQ16TAY1**
Power supply			3-phase 4-wire system, 380-415 V, 50 Hz							3-phase 4-wire system, 380-415 V, 50 Hz							
Cooling capacity		Btu/h	54,600	76,400	95,500	114,000	136,000	154,000		171,000	191,000	210,000	229,000	251,000	268,000	285,000	307,000
		kW	16.0	22.4	28.0	33.5	40.0	45.0		50.0	56.0	61.5	67.0	73.5	78.5	83.5	90.0
Heating capacity		Btu/h	61,400	85,300	107,000	128,000	154,000	171,000		191,000	215,000	235,000	256,000	281,000	299,000	319,000	341,000
		kW	18.0	25.0	31.5	37.5	45.0	50.0		56.0	63.0	69.0	75.0	82.5	87.5	93.5	100
Power consumption	Cooling	kW	3.38	5.16	7.04	8.66	10.9	13.0		15.4	18.0	15.7	17.3	19.6	21.7	24.1	26.0
	Heating	kW	3.73	5.68	7.29	9.22	10.8	12.7		15.0	17.5	16.5	18.4	20.0	21.9	24.2	25.4
Capacity control		%	20-100		16-100	15-100	11-100	10-100		8-100				6-100		5-100	
Casing colour			Ivory white (5Y7.5/1)							Ivory white (5Y7.5/1)							
Compressor	Type		Hermetically sealed scroll type							Hermetically sealed scroll type							
	Motor output	kW	2.3x1	3.3x1	4.0x1	4.9x1	(3.0x1)+(3.1x1)	(3.4x1)+(3.7x1)		(3.6x1)+(5.0x1)	(4.0x1)+(6.1x1)	(4.0x1)+(4.9x1)	(4.9x1)+(4.9x1)	(4.9x1)+(3.0x1)+(3.1x1)	(4.9x1)+(3.4x1)+(3.7x1)	(4.9x1)+(3.6x1)+(5.0x1)	(3.4x1)+(3.7x1)+(3.4x1)+(3.7x1)
Airflow rate		ℓ/s	1,983	2,633	2,800	3,000	3,900	3,983		3,767	4,483	2,800+3,000	3,000+3,000	3,000+3,900	3,000+3,983	3,000+3,767	3,983+3,983
		m³/min	119	158	168	180	234	239		226	269	168+180	180+180	180+234	180+239	180+226	239+239
Dimensions (H×W×D)		mm	1,657×930×765				1,657×1,240×765			1,657×1,240×765		(1,657×930×765)+(1,657×930×765)		(1,657×930×765)+(1,657×1,240×765)			(1,657×1,240×765)+(1,657×1,240×765)
Machine weight		kg	215		230		310			342		230+230		230+310		230+342	310+310
Sound level		dB(A)	56		57	59	60	61		62	65	61	62	63		64	
Sound power		dB(A)	77		78	80	81	82		83	86	82	83	84		85	
Operation range	Cooling	°CDB	-5 to 49							-5 to 49							
	Heating	°CWB	-20 to 15.5							-20 to 15.5							
	Cooling & Heating	°CWB	-6 to 15.5							-6 to 15.5							
Refrigerant	Type		R-410A							R-410A							
	Charge	kg	9.7		9.8	9.9	11.8			11.8		9.8+9.9	9.9+9.9	9.9+11.8			11.8+11.8
Piping connections	Liquid	mm	ϕ9.5 (Brazing)			ϕ12.7 (Brazing)				ϕ15.9 (Brazing)				ϕ19.1 (Brazing)			
	Gas	mm	ϕ19.1 (Brazing)		ϕ22.2 (Brazing)	ϕ28.6 (Brazing)				ϕ28.6 (Brazing)			ϕ 34.9 (Brazing)				
	High and low pressure gas	mm	ϕ15.9 (Brazing)		ϕ19.1 (Brazing)		ϕ22.2 (Brazing)			ϕ22.2 (Brazing)	ϕ28.6 (Brazing)						

																		
Model			**REYQ34TAY1**	**REYQ36TAY1**	**REYQ38TAY1**	**REYQ40TAY1**	**REYQ42TAY1**	**REYQ44TAY1**		**REYQ46TAY1**	**REYQ48TAY1**	**REYQ50TAY1**	**REYQ52TAY1**	**REYQ54TAY1**	**REYQ56TAY1**	**REYQ58TAY1**	**REYQ60TAY1**
Combination units			**REYQ16TAY1**	**REYQ16TAY1**	**REYQ12TAY1**	**REYQ12TAY1**	**REYQ10TAY1**	**REYQ12TAY1**		**REYQ14TAY1**	**REYQ16TAY1**	**REYQ16TAY1**	**REYQ16TAY1**	**REYQ18TAY1**	**REYQ18TAY1**	**REYQ18TAY1**	**REYQ20TAY1**
			REYQ18TAY1	**REYQ20TAY1**	**REYQ12TAY1**	**REYQ12TAY1**	**REYQ16TAY1**	**REYQ16TAY1**		**REYQ16TAY1**	**REYQ16TAY1**	**REYQ16TAY1**	**REYQ18TAY1**	**REYQ18TAY1**	**REYQ18TAY1**	**REYQ20TAY1**	**REYQ20TAY1**
			–	–	**REYQ14TAY1**	**REYQ16TAY1**	**REYQ16TAY1**	**REYQ16TAY1**		**REYQ16TAY1**	**REYQ16TAY1**	**REYQ18TAY1**	**REYQ18TAY1**	**REYQ18TAY1**	**REYQ20TAY1**	**REYQ20TAY1**	**REYQ20TAY1**
Power supply			3-phase 4-wire system, 380-415 V, 50 Hz							3-phase 4-wire system, 380-415 V, 50 Hz							
Cooling capacity		Btu/h	324,000	345,000	365,000	382,000	403,000	423,000		444,000	461,000	478,000	495,000	512,000	532,000	553,000	573,000
		kW	95.0	101	107	112	118	124		130	135	140	145	150	156	162	168
Heating capacity		Btu/h	362,000	386,000	409,000	427,000	450,000	471,000		495,000	512,000	532,000	553,000	573,000	597,000	621,000	645,000
		kW	106	113	120	125	132	138		145	150	156	162	168	175	182	189
Power consumption	Cooling	kW	28.4	31.0	28.2	30.3	33.0	34.7		36.9	39.0	41.4	43.8	46.2	48.8	51.4	54.0
	Heating	kW	27.7	30.2	29.2	31.1	32.7	34.6		36.2	38.1	40.4	42.7	45.0	47.5	50.0	52.5
Capacity control		%	4-100							3-100							
Casing colour			Ivory white (5Y7.5/1)							Ivory white (5Y7.5/1)							
Compressor	Type		Hermetically sealed scroll type							Hermetically sealed scroll type							
	Motor output	kW	(3.4x1)+(3.7x1)+(3.6x1)+(5.0x1)	(3.4x1)+(3.7x1)+(4.0x1)+(6.1x1)	(4.9x1)+(4.9x1)+(3.0x1)+(3.1x1)	(4.9x1)+(4.9x1)+(3.4x1)+(3.7x1)	(4.0x1)+(3.4x1)+(3.7x1)+(3.4x1)+(3.7x1)	(4.9x1)+(3.4x1)+(3.7x1)+(3.4x1)+(3.7x1)		(3.0x1)+(3.1x1)+(3.4x1)+(3.7x1)+(3.4x1)+(3.7x1)	(3.4x1)+(3.7x1)+(3.4x1)+(3.7x1)+(3.4x1)+(3.7x1)	(3.4x1)+(3.7x1)+(3.4x1)+(3.7x1)+(3.6x1)+(5.0x1)	(3.4x1)+(3.7x1)+(3.6x1)+(5.0x1)+(3.6x1)+(5.0x1)	(3.6x1)+(5.0x1)+(3.6x1)+(5.0x1)+(3.6x1)+(5.0x1)	(3.6x1)+(5.0x1)+(3.6x1)+(5.0x1)+(4.0x1)+(6.1x1)	(3.6x1)+(5.0x1)+(4.0x1)+(6.1x1)+(4.0x1)+(6.1x1)	(4.0x1)+(6.1x1)+(4.0x1)+(6.1x1)+(4.0x1)+(6.1x1)
Airflow rate		ℓ/s	3,983+3,767	3,983+4,483	3,000+3,000+3,900	3,000+3,000+3,983	2,800+3,983+3,983	3,000+3,983+3,983		3,900+3,983+3,983	3,983+3,983+3,983	3,983+3,983+3,767	3,983+3,767+3,767	3,767+3,767+3,767	3,767+3,767+4,483	3,767+4,483+4,483	4,483+4,483+4,483
		m³/min	239+226	239+269	180+180+234	180+180+239	168+239+239	180+239+239		234+239+239	239+239+239	239+239+226	239+226+226	226+226+226	226+226+269	226+269+269	269+269+269
Dimensions (H×W×D)		mm	(1,657×1,240×765)+(1,657×1,240×765)		(1,657×930×765)+(1,657×930×765)+(1,657×1,240×765)		(1,657×930×765)+(1,657×1,240×765)+(1,657×1,240×765)			(1,657×1,240×765)+(1,657×1,240×765)+(1,657×1,240×765)							
Machine weight		kg	310+342		230+230+310		230+310+310			310+310+310		310+310+342	310+342+342	342+342+342			
Sound level		dB(A)	65	66	64	65				65	66			67	68	69	70
Sound power		dB(A)	86	87	85	86				86	87			88	89	90	91
Operation range	Cooling	°CDB	-5 to 49							-5 to 49							
	Heating	°CWB	-20 to 15.5							-20 to 15.5							
	Cooling & Heating	°CWB	-6 to 15.5							-6 to 15.5							
Refrigerant	Type		R-410A							R-410A							
	Charge	kg	11.8+11.8		9.9+9.9+11.8		9.8+11.8+11.8	9.9+11.8+11.8		11.8+11.8+11.8							
Piping connections	Liquid	mm	ϕ19.1 (Brazing)							ϕ19.1 (Brazing)							
	Gas	mm	ϕ34.9 (Brazing)	ϕ41.3 (Brazing)						ϕ41.3 (Brazing)							
	High and low pressure gas	mm	ϕ28.6 (Brazing)		ϕ34.9 (Brazing)					ϕ34.9 (Brazing)							

Note: Specifications are based on the following conditions;

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

Indoor Unit Lineup

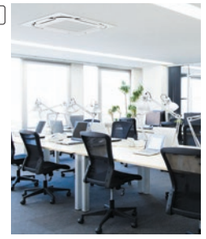
Daikin offers a wide range of indoor units includes both ***VRV*** and residential models responding to variety of needs of our customers that require air-conditioning solutions.

VRV indoor units

Ceiling Mounted Cassette (Round Flow with Sensing) Type P.113

FXFSQ-AVM

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



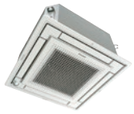
Ceiling Mounted Cassette (Round Flow) Type P.123

FXFQ-PVE

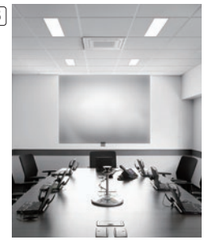
360◦airflow improves temperature distribution and offers a comfortable living environment

Ceiling Mounted Cassette (Compact Multi Flow) Type P.125

FXZQ-A2VEB



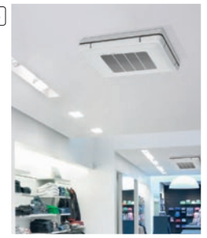
Quiet, compact, and designed for user comfort



4-Way Flow Ceiling Suspended Type P.126

FXUQ-AVEB

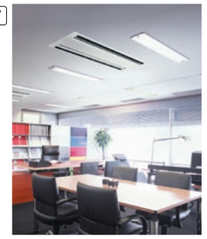
This slim and stylish indoor unit achieves optimum air distribution, and can be installed without the need for ceiling cavity



Ceiling Mounted Cassette (Double Flow) Type P.127

New **FXCQ-AVM**

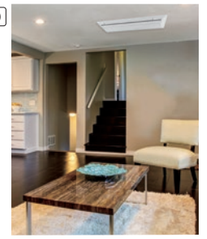
Thin, lightweight, and easy to install in narrow ceiling spaces



Ceiling Mounted Cassette (Single Flow) Type P.129

FXEQ-AV36

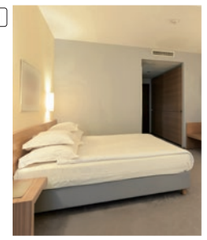
Slim design for flexible installation



Slim Ceiling Mounted Duct Type (Compact Series) P.131

FXDQ-TV1B(A)

Slim and compact design for easy and flexible installation

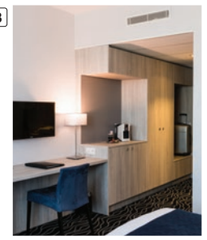


Slim Ceiling Mounted Duct Type (Standard Series) P.133

FXDQ-PDVE

FXDQ-NDVE

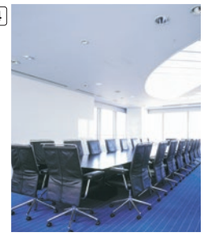
Slim design, quietness and static pressure switching



Ceiling Concealed (Duct) Type P.134

FXDYQ-MAV1

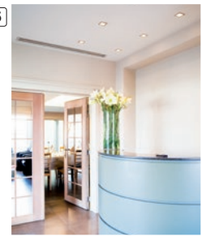
High static pressure offers flexible duct design that blends in with any interior décor in stores and offices



Middle Static Pressure Ceiling Mounted Duct Type P.135

FXSQ-PAVE

Middle static pressure and slim design allow flexible installations

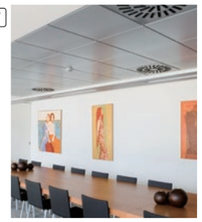


Ceiling Mounted Duct Type P.137

FXMQ-PAVE

FXMQ-PV1A

Middle and high static pressure allows flexible installations



Ceiling Suspended Type P.139

FXHQ-MAVE

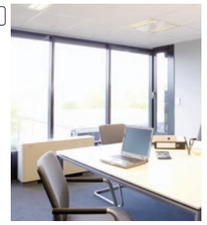
New **FXHQ-AVM**

Slim body with quiet and wide airflow.

Floor Standing Type P.143

FXLQ-MAVE

Suitable for perimeter zone air conditioning



Outdoor-Air Processing Unit P.161

FXMQ-MFV1

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

Wall Mounted Type P.141

New **FXAQ-AVM**

Stylish flat panel design harmonised with your interior décor.

Concealed Floor Standing Type P.144

FXNQ-MAVE

Designed to be concealed in the perimeter skirting-wall

Residential indoor units with connection to BP units

Ceiling Mounted Cassette (Compact Multi Flow) Type P.145

FFQ-BV1B

Quiet, compact, and designed for user comfort

Slim Ceiling Mounted Duct Type P.147

FDXS-CVMA

Slim and smooth design suits your shallow ceiling

Wall Mounted Type P.148

FTXS-KVMA

FTXS-KAVMA

Stylish flat panel harmonises with your interior décor

Air treatment equipment

Heat Reclaim Ventilator with DX-Coil and Humidifier P.159

VKM-GA(M)V1

Heat Reclaim Ventilator P.163

VAM-GJVE

Ceiling Mounted Cassette (Round Flow with Sensing) Type

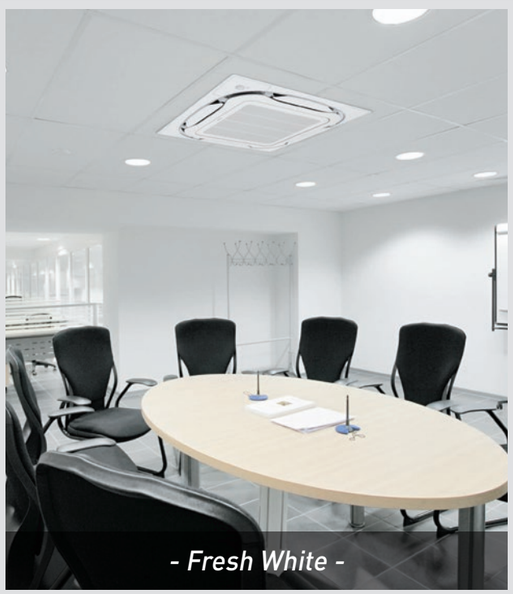
FXFSQ-A

Round flow with sensing

Panel variations (Option)

Standard panel with sensing
BYCQ125EEF (Fresh White)

Standard panel with sensing
BYCQ125EEK (Black)



Specifications

Ceiling Mounted Cassette (Round Flow with Sensing) Type

MODEL			FXFSQ25AVM	FXFSQ32AVM	FXFSQ40AVM	FXFSQ50AVM	FXFSQ63AVM	FXFSQ80AVM	FXFSQ100AVM	FXFSQ125AVM	FXFSQ140AVM
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz								
Cooling capacity		Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800	54,600
		kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0
Heating capacity		Btu/h	10,900	13,600	17,100	21,500	27,300	34,100	42,700	54,600	
		kW	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0	
Power consumption	Cooling	kW	0.028		0.035	0.056	0.061	0.092	0.164	0.170	0.194
	Heating		0.026		0.034	0.056	0.060	0.092	0.144	0.159	0.183
Casing			Galvanised steel plate								
Airflow rate (H/HM/M/ML/L)		ℓ/s	217/208/192/183/167		283/225/208/200/183	383/342/317/242/183	392/350/333/267/225	408/367/342/333/250	558/508/450/392/350	575/525/475/425/383	592/542/492/442/383
		m³/min	13/12.5/11.5/11/10		17/13.5/12.5/12/11	23/20.5/19/14.5/11	23.5/21/20/16/13.5	24.5/22/20.5/20/15	33.5/30.5/27/23.5/21	34.5/31.5/28.5/25.5/23	35.5/32.5/29.5/26.5/23
Sound level (H/HM/M/ML/L)		dB(A)	30/29.5/28.5/28/27		35/29.5/29/28/27	38/35/34.5/29.5/27	38/36/35.5/31.5/28	39/37/36/35.5/31	44/41/38/35/33	45/42.5/39.5/37/35	46/43.5/40.5/38/35
Dimensions (H×W×D)		mm	256×840×840						298×840×840		
Machine weight		kg	19			24	22		25		26
Piping connections	Liquid (Flare)	mm	ϕ6.4				ϕ9.5				
	Gas (Flare)		ϕ12.7				ϕ15.9				
	Drain		VP25 (External Dia. 32/Internal Dia. 25)								

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

Decoration Panel (Option)

Standard panel with sensing	Model		BYCQ125EEF (Fresh White) / BYCQ125EEK (Black)
	Dimensions(H×W×D)	mm	50×950×950
	Weight	kg	5.5

Function List

Remote controller	Wired	BRC1E63	–
	Wireless	–	BRC7M634F(K)
Dual sensors		○	
Direct airflow		○	
Sensing sensor low mode		○	
Sensing sensor stop mode		○	
Circulation airflow		○	
Individual airflow direction control		○	
Switchable 5 step fan speed		○	○
Auto airflow rate		○	○
Auto swing		○	○
Swing pattern selection		○	○
High ceiling application		○	

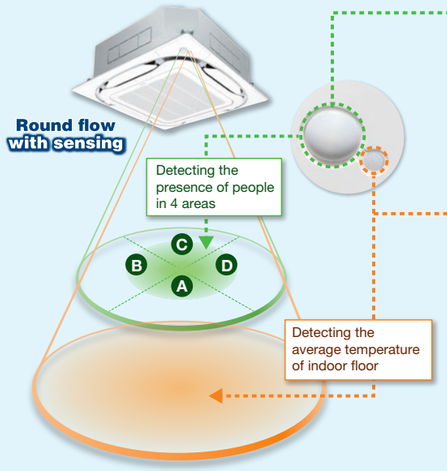
Ceiling Mounted Cassette (Round Flow with Sensing) Type FXFSQ-A

Daikin Advanced Sensing Functions*1

Dual sensors*1

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

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



Infrared presence sensor

The 4 sensors detect human presence.

Ceiling height	2.7m	3.5m	4.0m
Detection range (diameter)*2	approx. 8.5m	approx. 11.5m	approx. 13.5m

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

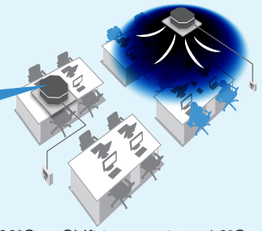
Infrared floor sensor

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

Ceiling height	2.7m	3.5m	4.0m
Detection range (diameter)*3	approx. 11m	approx. 14m	approx. 16m

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

Sensing sensor functions*4*5

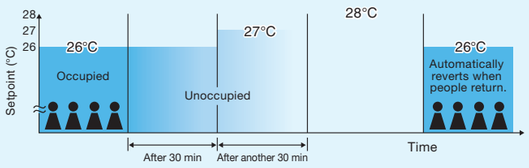


Sensing sensor low mode (default: OFF)

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

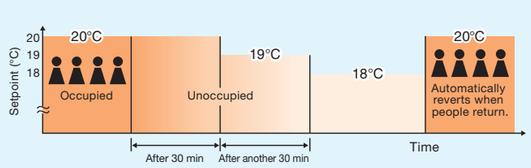
The system automatically saves energy by detecting whether or not the room is occupied. The set temperature is shifted automatically if the room is unoccupied.

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



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

Example • Heating setpoint: 20°C • Shift temperature: 1.0°C • Shift time: 30 min. • Limit heating temperature: 16°C



If people do not return, the air conditioner will lower the temperature 1°C every 30 minutes and then operate at 16°C.

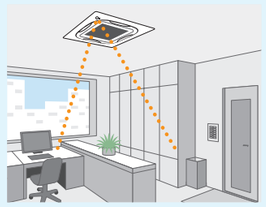
Shift temperature and time can be selected from 0.5 to 4°C in 0.5°C increments and 15, 30, 45, 60, 90 or 120 minutes respectively with remote controller.

Sensing sensor stop mode (default: OFF)

When there are no people in a room, the system stops automatically.*6*7

The system automatically saves energy by detecting whether or not the room is occupied. Based on preset user conditions, the system automatically stops operation if the room is unoccupied.

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

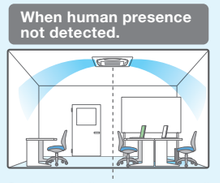


*4. These functions are not available when using the group control system.
*5. User can set these functions with remote controller.
*6. Please note that upon re-entering the room, air conditioner will not switch on automatically.
*7. To protect the machine, the standby system may operate temporarily.

Auto airflow function*8

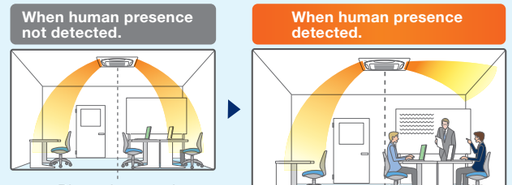
*8. Airflow direction shoud be set to "Auto".

Direct Airflow (default: OFF) Cooling Dry



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

Draft prevention function (default: OFF) Heating



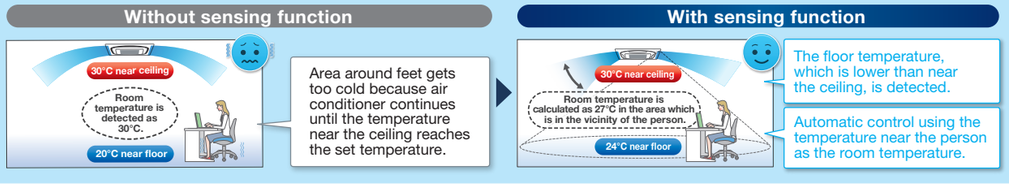
- With Auto airflow direction mode, flaps are controlled to deliver optimal airflow when the room is unoccupied.
- When human is detected, drafts are prevented by making the flap horizontal.

- When human is not detected for 5 minutes, the unit automatically returns to controlling the flaps for an unoccupied room.

Comfort and energy saving preventing over cooling/heating*9

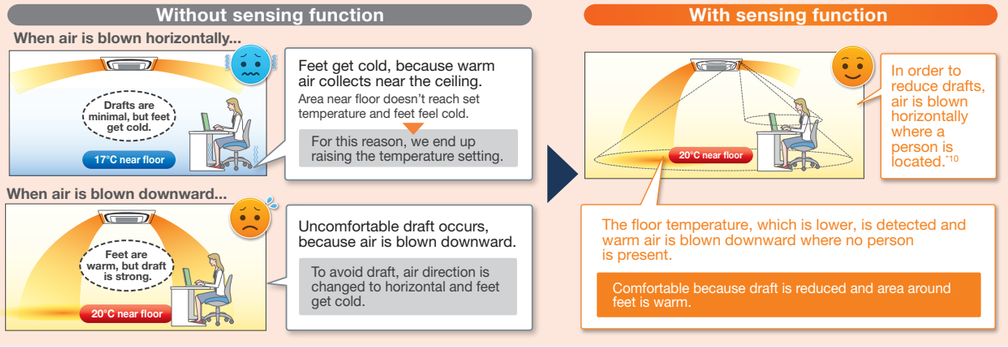
*9. Airflow direction and airflow rate should be set to "Auto".

Floor temperature is detected and over cooling prevented. Cooling



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

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



Energy savings The tendency of people to raise the temperature too much is prevented, because you are warmed up from the feet.

To increase comfort, Auto airflow rate mode controls the airflow in accordance with the difference between floor and ceiling temperatures.

When there is a large difference between the ceiling and floor temperatures, the airflow rate is automatically increased. When the difference becomes small, the airflow rate is automatically reduced.

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

New Round Flow Cassette movie at Daikin official YouTube site.

Ceiling Mounted Cassette (Round Flow with Sensing) Type

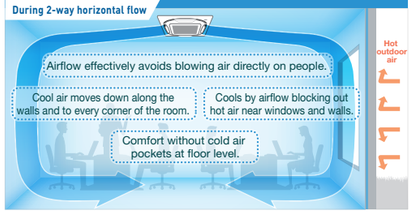
FXFSQ-A

Circulation Airflow*1, 2

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

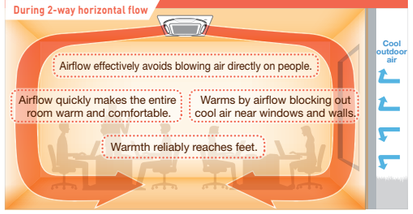
Cooling

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



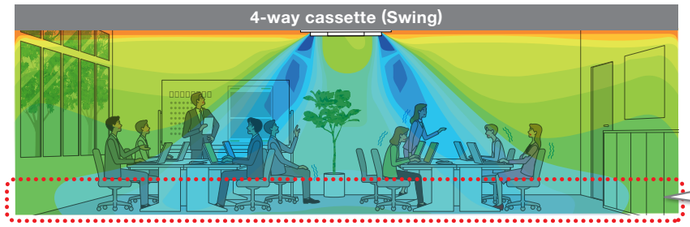
Heating

Circulation airflow warms the entire room starting from your feet.



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

Cooling



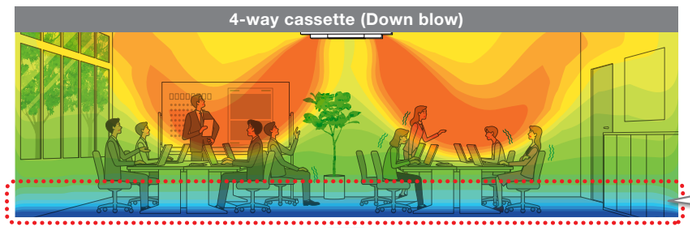
Approx. 5% energy savings by reducing uneven temperatures *3

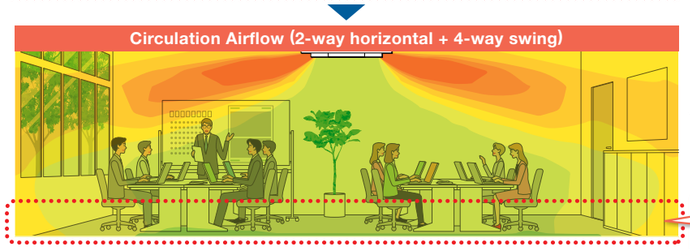
*3.Calculated under the following comparison conditions:
When the average temperature at a height of 0.6m above the floor reaches set temperature. (26°C)

Full comfort is provided with no cold feet.

Entire room evenly comfortable: warmth reaches feet

Heating





Approx. 15% energy savings by reducing uneven temperatures *4

*4.Calculated under the following comparison conditions:
When the average temperature at a height of 0.6m above the floor reaches set temperature. (22°C)

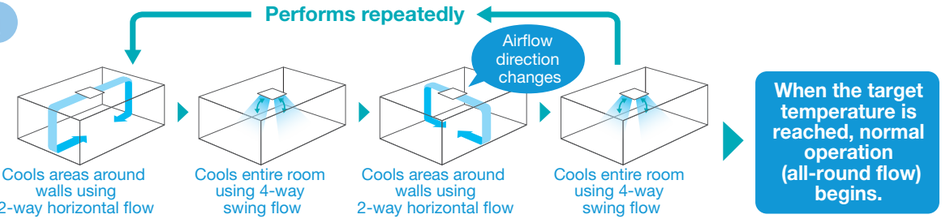
Areas around walls and feet are warm.

Configurations of Circulation Airflow

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

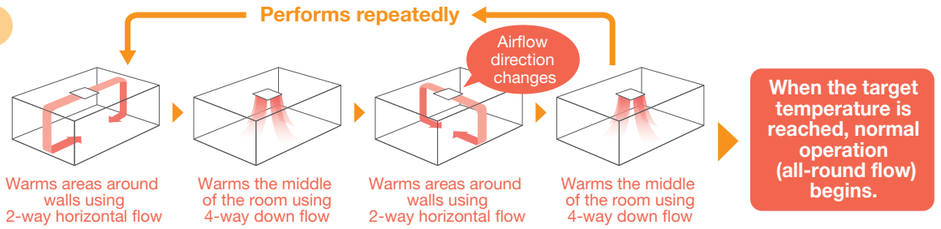
Cooling

Operation (at start)



Heating

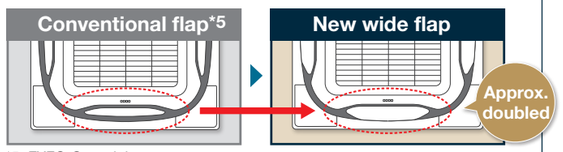
Operation (at start)



Three Technologies That Achieved Circulation Airflow

1 Use of new wide flaps (Straight)

With new, larger flaps, a straighter trajectory for airflow was achieved.



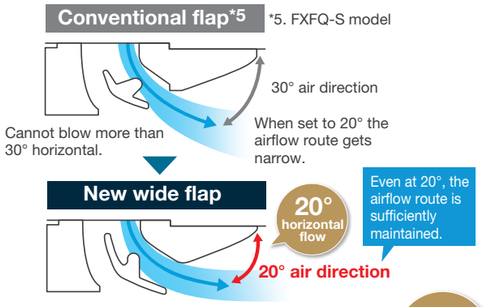
*5. FXFQ-S model

New wide flap construction inhibits ceiling dirt and grime.

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

2 Optimizing airflow angle (Horizontally)

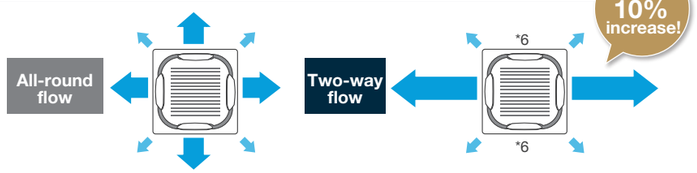
The airflow angle was made more horizontal.



3 Increased velocity in 2-way flow (Strongly)

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

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

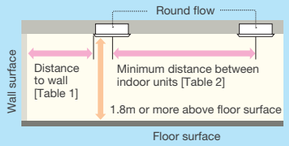


Things to remember when using circulation airflow

Main points for use

- Effectiveness may differ according to room conditions, room size, and distance to walls.
- Circulation airflow functions during connection with wired remote controller. (BRC1E63). However, use is not possible for the following conditions:
  - When a sealing material of air discharge outlet and branch ducts are used;
  - When individual airflow setting is selected;
  - When using group control other than round flow.

Installation conditions



[Table 1]
Distance to wall from indoor unit

Indoor unit capacity	FXFSQ 25-50	FXFSQ 63/80	FXFSQ 100-140
Distance range	1.5m-4m	1.5m-5m	1.5m-7m

[Table 2]
Minimum distance between indoor units

Indoor unit capacity	FXFSQ 25-50	FXFSQ 63/80	FXFSQ 100-140
Minimum distance	4m or more	5m or more	7m or more

Ceiling Mounted Cassette (Round Flow with Sensing) Type

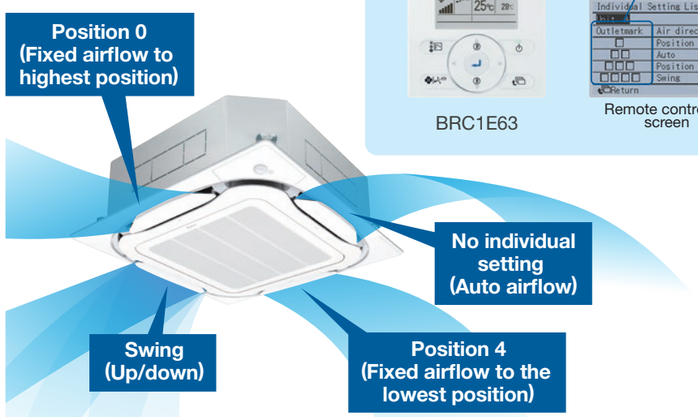
FXFSQ-A

Individual Airflow Direction Control*1

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

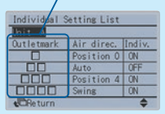
Comfortable air conditioning for all room layouts and conditions

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

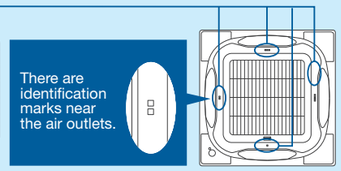


Easy setting is possible with a wired remote controller "Nav Ease".

BRC1E63



Remote controller screen



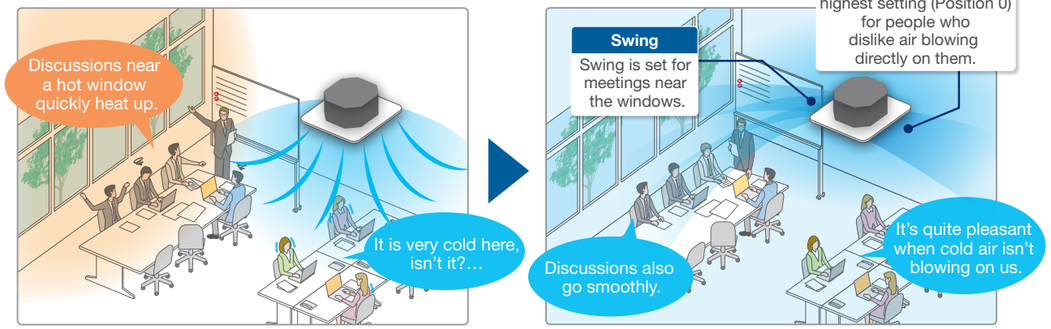
Individual airflow settings

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

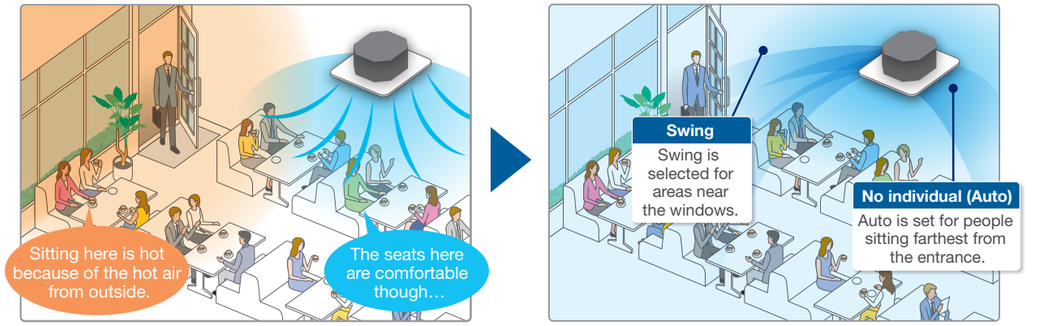
Individual settings are possible as stated above.

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

For offices



For shops and restaurant



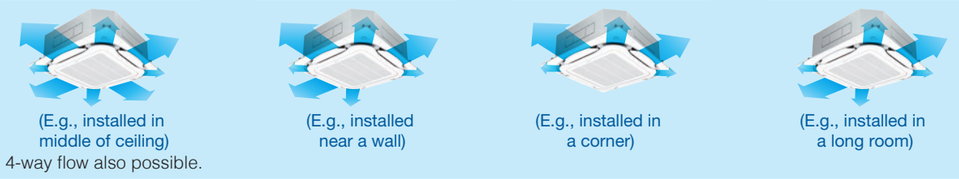
Other Functions

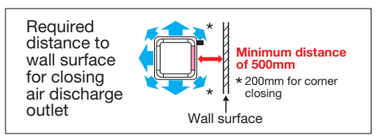
Comfort

360° Airflow & Selectable Airflow Pattern

Indoor unit offers 360° airflow discharges air in all directions with more uniform temperature distribution.
Because air flows out from corner outlets, comfort spreads more widely.

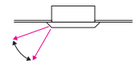
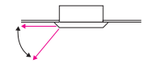
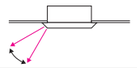
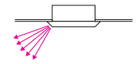
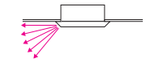
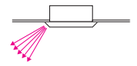
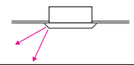
Typical flow patterns There are a total of 18 flow patterns.





Note:
- Whatever the discharge direction, the same type of panel is used. If installing for other than all-round flow, an air discharge outlet sealing material (option) must be used to close each unused outlet.
- Operation sound increases when using 2-way or 3-way flow.

Optimal comfort and convenience assured by 3 air discharge modes

Air direction	Standard setting[1]	Draft prevention setting (field setting)	Ceiling soiling prevention setting[2] (field setting)
Desired situation	For gentle drafts.	When drafts are unwanted.	For shops with light coloured ceilings that must be kept spotless.
Auto-swing			
5-level air direction setting			
Auto air direction control	 The air direction is set automatically to the memorised position of the previous air direction.		

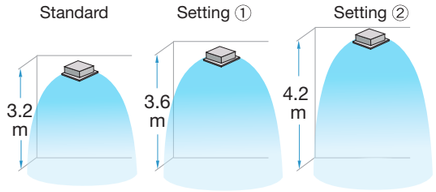
Note:
[1]Air direction is set to the standard position when the unit is shipped from the factory. The position can be changed from the remote controller.
[2]Closing of the corner discharge outlets is recommended.

Switchable fan speed: 5 steps and Auto

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

Suitable for high ceilings

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



When all round flow is selected, ceilings up to 4.2 m in height can be accommodated. (FXFSQ100-140A)

■Criteria for ceiling height and number of air discharge outlets
(Ceiling height is reference value)

		Number of air discharge outlets used							
		FXFSQ25-80A				FXFSQ100–140A			
		All round flow	4-way flow	3-way flow	2-way flow	All round flow	4-way flow	3-way flow	2-way flow
Ceiling height	Standard	2.7 m	3.1 m	3.0 m	3.5 m	3.2 m	3.4 m	3.6 m	4.2 m
	High ceiling ①	3.0 m	3.4 m	3.3 m	3.8 m	3.6 m	3.9 m	4.0 m	4.2 m
	High ceiling ②	3.5 m	4.0 m	3.5 m	—	4.2 m	4.5 m	4.2 m	—

Note:
- Factory settings are for standard ceiling height and all-round flow. High ceiling settings (1) and (2) are set with the remote controller by field setting.
- High-efficiency filters are not available for high ceiling applications.

Ceiling Mounted Cassette (Round Flow with Sensing) Type

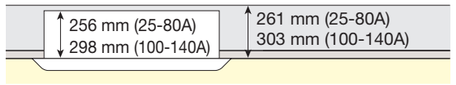
FXFSQ-A

Quick and Easy Installation

Lightweight

All models can be installed without using a lifter.

Installable in tight ceiling spaces



Easy removal of corner cover

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

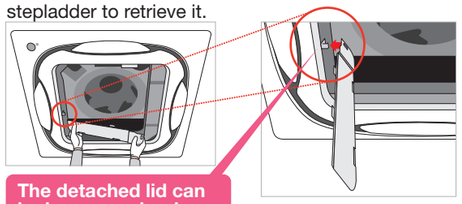
Easy height adjustment

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

Note:
If the wireless remote controller is installed, a signal receiver unit is housed in one of the adjuster pockets.

Temporary placement of control box lid

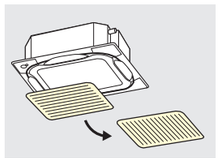
Because the control box lid can be temporarily hung on the unit, there is no need to climb down the stepladder to retrieve it.



The detached lid can be hung on a hook.

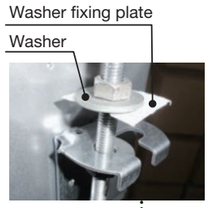
Installed in any direction

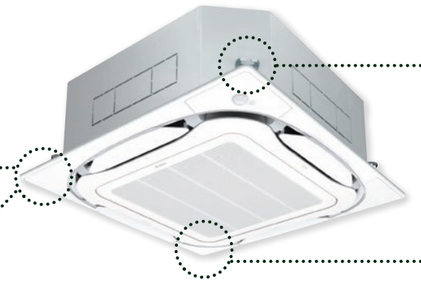
Since the orientation of the suction grille can be adjusted after installing, the direction of the suction grille lines can be unified when multiple units are installed.



Easy hanging

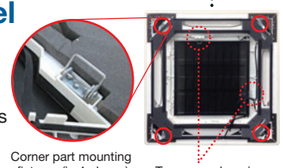
Washer fixing plates secure washers in place and prevent washers from falling for easy installation.





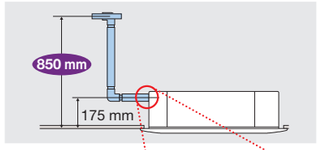
Ease in temporary hanging of decoration panel

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



Drain pump

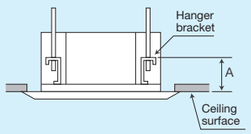
Equipped as standard accessory with 850 mm lift.



Transparent drain socket

■ Hanging height adjustment

Because the configuration of the hanger bracket changed, the dimensions from the ceiling to the hanger bracket also change during height adjustment for indoor unit.



	A Dimensions
Standard panel	125-130mm
Chamber option*+ standard panel	175-180mm

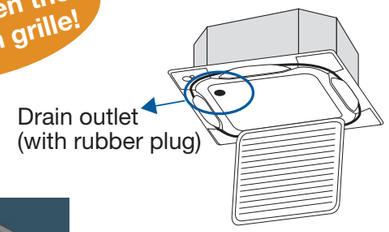
*High-efficiency filter, ultra long-life filter, and fresh air intake

Easy Maintenance

Drain pan and drain water check

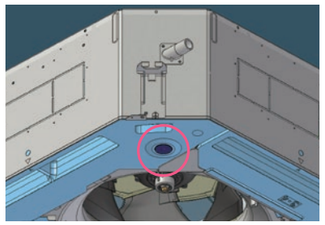
The condition of the drain pan and drain water can be checked by removing the suction grille and drain plug.

Just open the suction grille!



24 mm diameter drain outlet

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



Ultra long-life filter (option)

See page 190

Maintenance is not required in normal shops or offices for up to four years.

Cleanliness

Silver ion anti-bacterial drain pan

A built-in antibacterial treatment that uses silver ion in the drain pan prevents the growth of slime, bacteria, and mould that cause odours and clogging.
(The lifespan of a silver ion cartridge depends on the usage environment, but should be changed once every two to three years.)

Non-flocking flaps

Flaps can be detached without use of tools.
Condensation does not easily form and dirt does not cling to non-flocking flaps.
They are easy to clean.

Filter has anti-mould and antibacterial treatment

Prevents mould and microorganisms growing out of the dust and moisture that adheres to the filters.

Ceiling Mounted Cassette (Round Flow) Type

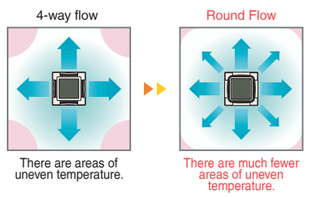
FXFQ-P

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

ROUND FLOW

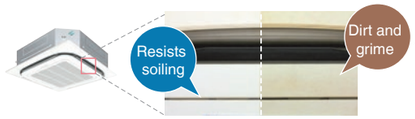
- The industry's first* Round Flow Ceiling Mounted Cassette type offers 360° airflow with improved temperature distribution.

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



- The light weight unit at 19.5 kg for FXFQ25-50P models makes installation easy.
- Drain pump is equipped as a standard accessory with a 850 mm lift.

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

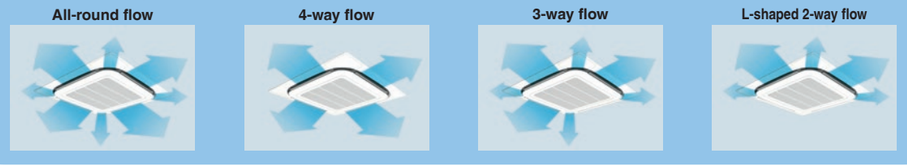


• Condition after exposure to the smoke of 600 cigarettes in 1 m^3 enclosed space.

- Control of the airflow rate can be selected from 3-step control.
- The horizontal louvres prevent dew condensation. Their non-flocking surfaces, which repel dirt, are easy to clean.
- An antibacterial treatment that uses silver ions has been applied to the drain pan, preventing the growth of slime, mould and bacteria that cause blockages and odours.
  (The lifespan of a silver ion cartridge depends on the usage environment, but should be changed once every two to three years.)

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

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



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

Specifications

MODEL			FXFQ25PVE	FXFQ32PVE	FXFQ40PVE	FXFQ50PVE	FXFQ63PVE	FXFQ80PVE	FXFQ100PVE	FXFQ125PVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz							
Cooling capacity		Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800
		kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0
Heating capacity		Btu/h	10,900	13,600	17,100	21,500	27,300	34,100	42,700	54,600
		kW	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0
Power consumption	Cooling	kW	0.033		0.047	0.052	0.066	0.093	0.187	0.209
	Heating	kW	0.027		0.034	0.038	0.053	0.075	0.174	0.200
Casing			Galvanised steel plate							
Airflow rate (HH/H/L)		ℓ/s	216/191/166		250/216/183	266/225/183	316/275/225	350/300/250	533/433/333	550/466/375
		m^3/min	13/11.5/10		15/13/11	16/13.5/11	19/16.5/13.5	21/18/15	32/26/20	33/28/22.5
Sound level (HH/H/L)		dB(A)	30/28.5/27		31/29/27	32/29.5/27	34/31/28	36/33.5/31	43/37.5/32	44/39/34
Sound power (HH/H/L)		dB(A)	48/46.5/45		49/47/45	50/47.5/45	52/49/46	53/51.5/49	60/54.5/50	61/56/52
Dimensions (H×W×D)		mm	246×840×840						288×840×840	
Machine weight		kg	19.5				22		25	
Piping connections	Liquid (Flare)	mm	ϕ6.4				ϕ9.5			
	Gas (Flare)		ϕ12.7				ϕ15.9			
	Drain		VP25 (External Dia. 32/Internal Dia. 25)							
Panel (Option)	Model		BYCP125K-W1							
	Colour		Fresh white							
	Dimensions(H×W×D)	mm	50X950X950							
	Weight	kg	5.5							

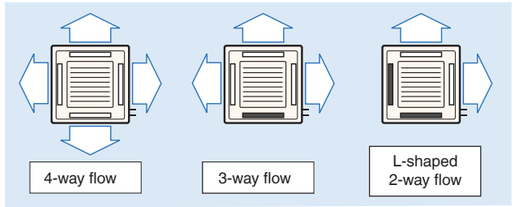
Note: Specifications are based on the following conditions;
- •Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- •Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
-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

Ceiling Mounted Cassette (Compact Multi Flow) Type FXZQ-A2

Quiet, compact, and designed for user comfort

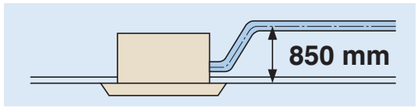
- The newly designed panel integrates fully within one ceiling tile enabling lights, speakers and sprinklers to be installed in the adjoining ceiling tiles.

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



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

- Dimensions correspond with 600 mm X 600 mm architectural module ceiling design specifications.
- Drain pump is equipped as standard accessory with 850 mm lift.



- An optional presence and floor sensor kit (BRYQ60A2W) can be fitted to the cassette for draught prevention, energy saving operation and to avoid temperature stratification during heating.

Specifications

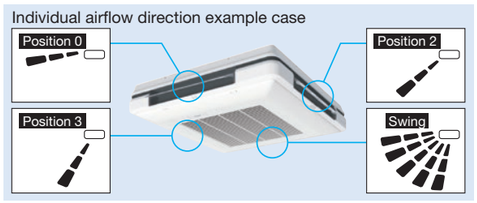
MODEL			FXZQ20A2VEB	FXZQ25A2VEB	FXZQ32A2VEB	FXZQ40A2VEB	FXZQ50A2VEB
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz				
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100
		kW	2.2	2.8	3.6	4.5	5.6
Heating capacity		Btu/h	8,500	10,900	13,600	17,100	21,500
		kW	2.5	3.2	4.0	5.0	6.3
Power consumption	Cooling	kW	0.043		0.045	0.059	0.092
	Heating	kW	0.036		0.038	0.053	0.086
Casing			Galvanised steel plate				
Airflow rate (H/M/L)		ℓ/s	145/125/108	150/133/108	167/142/117	192/158/133	242/208/167
		m³/min	8.7/7.5/6.5	9/8/6.5	10/8.5/7	11.5/9.5/8	14.5/12.5/10
Sound level (H/M/L)		dB(A)	32/29.5/25.5	33/30/25.5	33.5/30/26	37/32/28	43/40/33
Sound power (H)		dB(A)	49	50	51	54	60
Dimensions (H×W×D)		mm	260×575×575 (For depth add 63mm for electrical box)				
Machine weight		kg	15.5		16.5		18.5
Piping connections	Liquid (Flare)	mm	ϕ6.4				
	Gas (Flare)		ϕ12.7				
	Drain		VP20 (External Dia. 26/Internal Dia. 20)				
Panel (Option)	Model		BYFQ60C2W1W				
	Colour		White (N9.5)				
	Dimensions(H×W×D)	mm	46x620x620				
	Weight	kg	2.8				

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

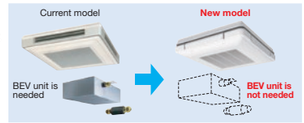
4-way Flow Ceiling Suspended Type FXUQ-A

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

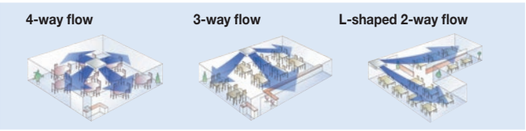
- Unit body and suction panel adopted round shapes and realised a slim appearance design. The unit can be used for various locations such as the ceilings with no cavity and bare ceilings.
- Flaps close automatically when the unit stops, which gives a simple appearance.
- Unified slim height of 198 mm for all models that gives the unified impression even when models with different capacities are installed in the same area.
- With adoption of the individual flap control, airflow direction adjustment can be individually set for each air outlet. 5 directions of airflow and auto-swing can be selected with wired remote controller BRC1E63, which realises the optimum air distribution.



- Control of the airflow rate has been improved from 2-step to 3-step control. Auto airflow rate control can be selected with wired remote controller BRC1E63.
- Built-in electronic expansion valve eliminates the need for a BEV unit, which improves flexibility of installation.



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



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

Specifications

MODEL			FXUQ71AVEB	FXUQ100AVEB
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz	
Cooling capacity		Btu/h	27,300	38,200
		kW	8.0	11.2
Heating capacity		Btu/h	30,700	42,700
		kW	9.0	12.5
Power consumption	Cooling	kW	0.090	0.200
	Heating	kW	0.073	0.179
Casing			Fresh white	
Airflow rate (H/M/L)		ℓ/s	375/325/267	517/433/350
		m³/min	22.5/19.5/16	31/26/21
Sound level (H/M/L)		dB(A)	40/38/36	47/44/40
Sound power (H/M/L)		dB(A)	58/56/54	65/62/58
Dimensions (H×W×D)		mm	198×950×950	
Machine weight		kg	26	27
Piping connections	Liquid (Flare)	mm	ϕ9.5	
	Gas (Flare)		ϕ15.9	
	Drain		VP20 (External Dia. 26/Internal Dia. 20)	

Note: Specifications are based on the following conditions;
- •Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- •Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- •Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- •Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Ceiling Mounted Cassette (Double Flow) Type

New FXCQ-A

Stylish unit blends easily with any interior. Integrated ceiling surface with sophisticated panel design with the adoption of flat flap.

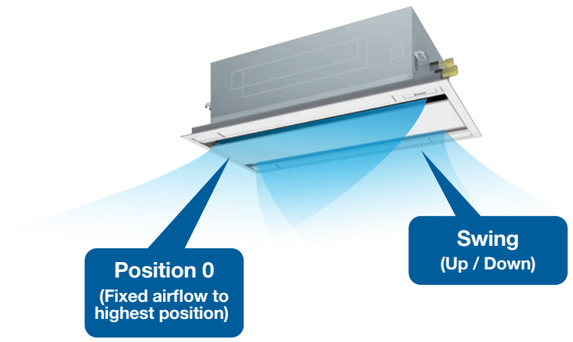
New panel design

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

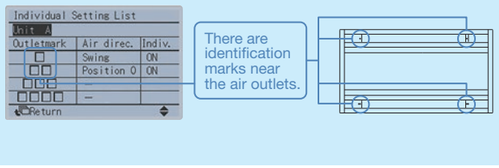
Individual Airflow Direction Control *1

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

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



Easy setting is possible with a wired remote controller.



Individual airflow settings

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

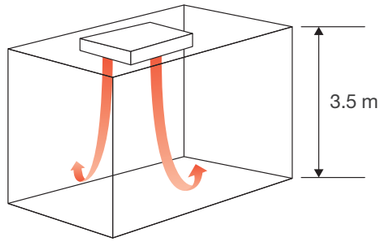
Individual settings are possible as stated above.

Switchable fan speed: 5 steps and Auto

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

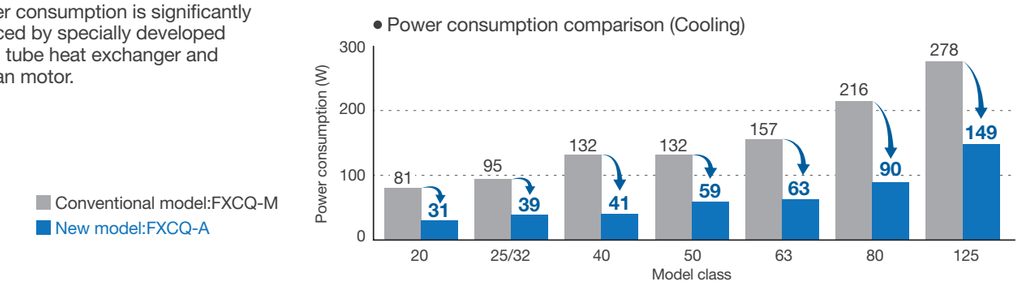
Suitable for high ceilings

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



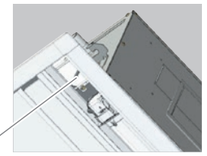
Energy saving : Reduction of energy consumption

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



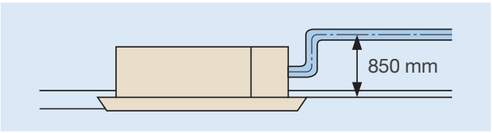
Enhanced functions from various aspects such as maintenance

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



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

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



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

Specifications

MODEL			FXCQ20AVM	FXCQ25AVM	FXCQ32AVM	FXCQ40AVM	FXCQ50AVM	FXCQ63AVM	FXCQ80AVM	FXCQ125AVM
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz							
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	30,700	47,800
		kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	14.0
Heating capacity		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300	34,100	54,600
		kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	16.0
Power consumption	Cooling	kW	0.031	0.039		0.041	0.059	0.063	0.090	0.149
	Heating		0.028	0.035		0.037	0.056	0.060	0.086	0.146
Casing			Galvanised steel plate							
Airflow rate (H/HM/M/ML/L)		ℓ/s	175/158/150/133/125	192/175/158/142/133		200/183/175/158/142	250/233/217/192/175	267/250/233/208/192	433/400/375/342/308	533/492/458/417/375
		m³/min	10.5/9.5/9/8/7.5	11.5/10.5/9.5/8.5/8		12/11/10.5/9.5/8.5	15/14/13/11.5/10.5	16/15/14/12.5/11.5	26/24/22.5/20.5/18.5	32/29.5/27.5/25/22.5
Sound level (H/HM/M/ML/L)		dB(A)	32/31/30/29/28	34/33/31/30/29	34/33/32/31/30	36/35/33/32/31	37/36/35/33/31	39/38/37/35/32	42/40/38/36/33	46/44/42/40/38
Dimensions (H×W×D)		mm	305x775x620				305x990x620		305x1,445x620	
Machine weight		kg	19				22	25	33	38
Piping connections	Liquid (Flare)	mm	ϕ6.4				ϕ9.5			
	Gas (Flare)		ϕ12.7				ϕ15.9			
	Drain		VP25 (External Dia. 32/Internal Dia. 25)							
Panel (Option)	Model		BYBCQ40CF				BYBCQ63CF		BYBCQ125CF	
	Colour		Fresh white (6.5Y 9.5/0.5)							
	Dimensions (H×W×D)	mm	55x1,070x700				55x1,285x700		55x1,740x700	
	Weight	kg	10				11		13	

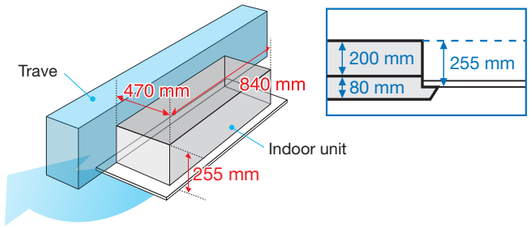
Note: Specifications are based on the following conditions;
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity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

Ceiling Mounted Cassette (Single Flow) Type

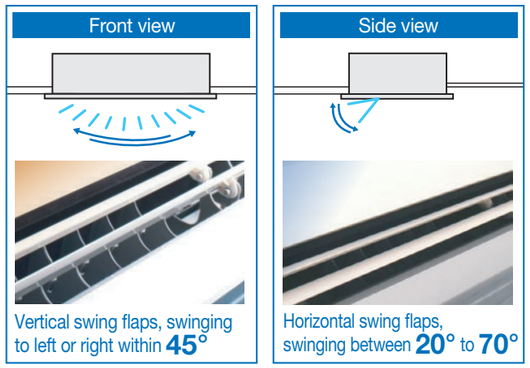
FXEQ-A

Slim design for flexible installation

●The body features a compact design with a height of just 200 mm and depth 470 mm, making the installation possible in tight ceiling spaces.



●The swinging of horizontal and vertical swing flaps can be adjusted freely with the remote controller, providing 3D airflow to every corner of the room.

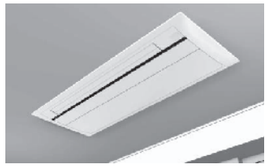


●Control of airflow rate can be selected from 5-step control and quiet operation mode, which provides comfortable airflow.

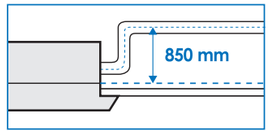
●DC motor is adopted both in the fan and drain pump of the indoor unit, not only enhancing the energy saving performance, but also reducing the operating sound and the vibration incurred to the unit.

●While creating a cozy indoor environment, the unit can prevent the suspended ceiling from being soiled by adjusting its louvre angle.

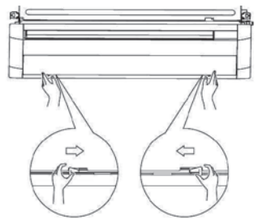
●The novel smooth panel design makes dust difficult to accumulate, thus causing the cleaning more conveniently.



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



●Servicing of common parts such as the control box etc. can be performed easily only with the suspended panel removed.



New Remote Controller (Option)

■Wireless Remote Controller

●Stylish new design giving more satisfaction of ownership
●Comes in white colour
●User-friendly buttons with new functions such as 2 flaps control, 5-step airflow control, automatic airflow
●Back light function helps operating in dark rooms

BRC4M61

LCD Backlight

The LCD panel lights up during use, making the remote controller easy to handle even in dark.

■Navigation Remote Controller (Wired Remote Controller)

New functions such as 2 flaps control, 5-step airflow control, automatic airflow can be also adjusted with the new wired remote controller.

BRC1F61

Specifications

MODEL			FXEQ20AV36	FXEQ25AV36	FXEQ32AV36	FXEQ40AV36	FXEQ50AV36	FXEQ63AV36
Power supply			1-phase, 220-240 V, 50 Hz					
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption	Cooling	kW	0.026	0.027	0.034	0.046	0.048	0.067
	Heating		0.022	0.023	0.030	0.042	0.044	0.063
Casing			Galvanised steel plate					
Airflow rate (H/HM/M/ML/L)	Cooling	ℓ/s	100/90/82/73/67	115/107/97/88/80	133/125/117/105/92	163/147/130/117/103	208/190/173/158/145	250/227/203/183/163
		m^3/min	6.0/5.4/4.9/4.4/4.0	6.9/6.4/5.8/5.3/4.8	8.0/7.5/7.0/6.3/5.5	9.8/8.8/7.8/7.0/6.2	12.5/11.4/10.4/9.5/8.7	15.0/13.6/12.2/11.0/9.8
	Heating	ℓ/s	100/93/85/78/70	120/112/102/93/83	143/133/123/112/100	170/155/140/127/113	233/213/193/178/163	282/255/227/205/183
		m^3/min	6.0/5.6/5.1/4.7/4.2	7.2/6.7/6.1/5.6/5.0	8.6/8.0/7.4/6.7/6.0	10.2/9.3/8.4/7.6/6.8	14.0/12.8/11.6/10.7/9.8	16.9/15.3/13.6/12.3/11.0
Sound level (H/HM/M/ML/L)	Cooling	dB(A)	30/29/28/27/26	32/31/30/29/28	35/34/33/32/30	38/37/35/33/31	38/37/35/33/31	43/41/39/37/35
	Heating		33/31/29/28/26	35/33/31/30/28	38/36/34/33/31	41/39/37/35/33	41/39/37/36/34	46/44/42/40/38
Dimensions (H×W×D)		mm	200×840×470				200×1,240×470	
Machine weight		kg	17			18	23	
Piping connections	Liquid (Flare)	mm	ϕ6.4					ϕ9.5
	Gas (Flare)		ϕ12.7					ϕ15.9
	Drain		PVC26 (External Dia. 26/Internal Dia. 20)					
Panel (Option)	Model		BYEP40AW1				BYEP63AW1	
	Colour		Fresh white					
	Dimensions(H×W×D)	mm	80×950×550				80×1,350×550	
	Weight	kg	8.0				10.0	

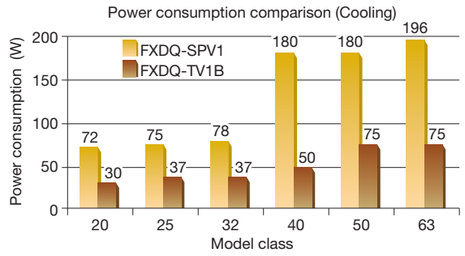
Note: Specifications are based on the following conditions;
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.

Slim Ceiling Mounted Duct Type (Compact Series) FXDQ-T

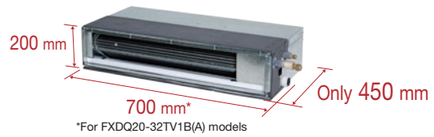
Slim and compact design for easy and flexible installation

DC Fan Motor / DC Drain Pump

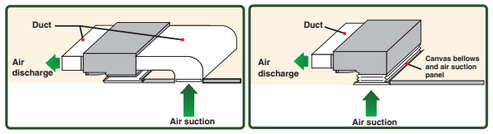
Adoption of a DC motor for both the fan motor and the drain pump has greatly reduced power consumption and also operation noise.



- Slim and compact design with a height of only 200 mm allows for installation in drop ceilings with ceiling voids of as little as 240 mm in height. The depth is also only 450 mm making it suitable for installation in limited spaces such as wardrobes.



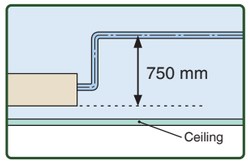
- Features rear or bottom return to suite site constraints.



Air filter included

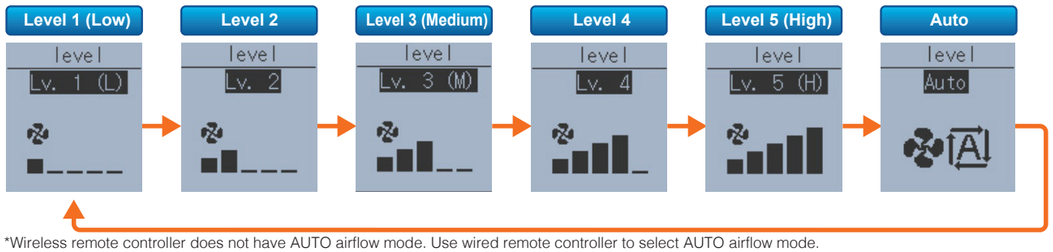
Clip-on resin net filter attached to the rear of the unit as standard.

- Drain pump is equipped as standard accessory with 750 mm lift.



Auto & 5-step Airflow Control

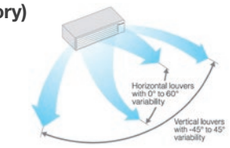
Airflow rate can be selected from 5 Steps and AUTO airflow mode. AUTO will automatically regulate the airflow rate in accordance to the difference between room temperature and set temperature.



*Wireless remote controller does not have AUTO airflow mode. Use wired remote controller to select AUTO airflow mode.

3-D Auto Swing Discharge Grille (Optional Accessory)

Motorised louvres provide 3-D airflow distribution for improved air circulation. Operations via BRC1E63 with functions including 3-D Auto Swing, Horizontal Auto Swing, Vertical Auto Swing & Fixed Positioning.



Model	Compatibility	HxWxD (mm)
BDG20A09	20-32 Class	180x722x70
BDG20A15	40-50 Class	180x922x70
BDG20A20	63 Class	180x1,122x70

Auto Clean Air Filter Module (Optional Accessory)

A unique rear suction mounted motorised filter cleaning module with included polyester filter for convenient filter maintenance. Scheduled automatic filter cleaning occurs once a week during non operational hours of the indoor unit (set via BRC1E63) to ensure optimal performance and increased energy savings.

Model	Compatibility	HxWxD (mm)
BAE20A62	20-32 Class	210x840x188
BAE20A82	40-50 Class	210x1,040x188
BAE20A102	63 Class	210x1,240x188

Mounts to the rear of the indoor unit with the vacuum port installed under the ceiling

Cleaning unit moves across the filter removing dust which is collected in the dust box

Dust in the dust box can be emptied by vacuuming out the dust via the vacuum port

Two Series Available

FXDQ-TV1B – Standard Model
FXDQ-TV1BA – Features Built-in Multi Tenancy Kit

This kit allows an independent 24V power source to be supplied to the indoor unit PCB in conjunction with 1 phase power from the tenants board. This ensures critical operations, such as oil return are not affected should there be an interruption to the main indoor unit power.

Specifications

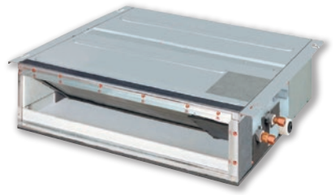
MODEL			FXDQ20TV1B(A)	FXDQ25TV1B(A)	FXDQ32TV1B(A)	FXDQ40TV1B(A)	FXDQ50TV1B(A)	FXDQ63TV1B(A)
Power supply			1-phase, 220-240 V, 50 Hz					
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption★1	Cooling	kW	0.030	0.037		0.050	0.075	
	Heating		0.025	0.032		0.045	0.070	
Casing			Galvanised steel plate					
Airflow rate		ℓ/s	135	150		210	250	325
		m³/min	8.1	9.0		12.6	15.0	19.5
External static pressure		Pa	40-10★2		50-10★2	60-10★2	45-10★2	
Sound level (HH/H/L) ★1★3		dB (A)	32/30/28	33/30.5/28		34/31.5/29	35/32.5/30	37/35/33
Dimensions (H x W x D)		mm	200×700×450			200×900×450		200×1,100×450
Machine weight		kg	18			21		24
Piping connections	Liquid (Flare)	mm	⌀6.4					⌀9.5
	Gas (Flare)		⌀12.7					⌀15.9
	Drain		PVC26 (External Dia. 26 / Internal Dia. 20)					

Note: Specifications are based on the following conditions;
- •Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 5 m, Level difference: 0 m.
- •Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 5 m, Level difference: 0 m.
- •Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- •Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.

★1 : Values are based on external static pressure of 10 Pa. For FXDQ-TV1BA models, +0.0005kW on top of cooling/heating power consumption values.
★2 : External static pressure is changeable to set by the remote controller. This pressure means "High static pressure - Standard". (Factory setting is 10 Pa)
★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).

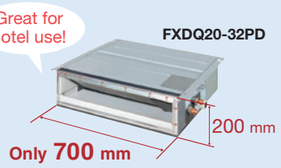
Slim Ceiling Mounted Duct Type (Standard Series) FXDQ-PD / ND

Slim design, quietness and static pressure switching

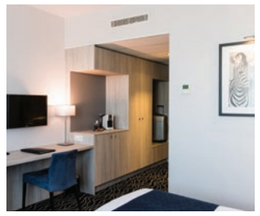


Suitable to use in drop-ceilings!

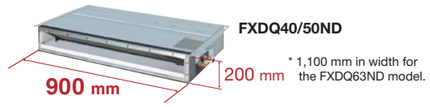
- Only 700 mm in width and 23 kg in weight, this model is suitable to install in limited spaces like drop-ceilings in hotels.

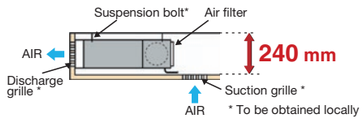


- Control of the airflow rate can be selected from 3-step control and Auto. Auto airflow rate control can be selected with wired remote controller BRC1E63.
- Low operation sound level.
- External static pressure selectable by remote controller switching make this indoor unit a very comfortable and flexible model.
  10 Pa-30 Pa/factory set:
  10 Pa for FXDQ-PD models.
  15 Pa-44 Pa/factory set:
  15 Pa for FXDQ-ND models.

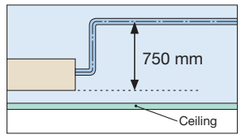


- Only 200 mm in height, this model can be installed in rooms with as little as 240 mm in height for the ceiling space between the drop-ceiling and ceiling slab.





- Drain pump is equipped as standard accessory with 750 mm lift.



Specifications

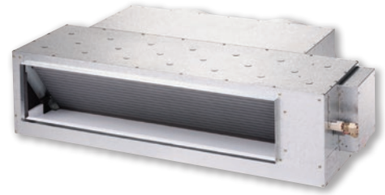
MODEL			FXDQ20PDVE	FXDQ25PDVE	FXDQ32PDVE	FXDQ40NDVE	FXDQ50NDVE	FXDQ63NDVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz					
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption ★1	Cooling	kW	0.086		0.089	0.160	0.165	0.181
	Heating		0.067		0.070	0.147	0.152	0.168
Casing			Galvanised steel plate					
Airflow rate (HH/H/L)		ℓ/s	133/120/106			175/158/141	208/183/166	275/241/216
		m³/min	8.0/7.2/6.4			10.5/9.5/8.5	12.5/11.0/10.0	16.5/14.5/13.0
External static pressure		Pa	30-10 ★2			44-15 ★2		
Sound level (HH/H/L) ★1★3		dB(A)	28/26/23		28/26/24	30/28/26	33/30/27	33/31/29
Sound power (HH/H/L)		dB(A)	56/54/51		56/54/52	58/56/54	61/58/55	61/59/57
Dimensions (H×W×D)		mm	200×700×620			200×900×620		200×1,100×620
Machine weight		kg	23			27	28	31
Piping connections	Liquid (Flare)	mm	ϕ6.4					ϕ9.5
	Gas (Flare)		ϕ12.7					ϕ15.9
	Drain		VP20 (External Dia. 26/Internal Dia. 20)					

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

★1 : Values are based on the following conditions: FXDQ-PD: external static pressure of 10 Pa; FXDQ-ND: external static pressure of 15 Pa.
★2 : External static pressure is changeable to set by the remote controller. This pressure means "High static pressure - Standard".(Factory setting is 10 Pa for FXDQ-PD models and 15 Pa for FXDQ-ND models.)
★3 : The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).

Ceiling Concealed (Duct) Type FXDYQ-MA

High static pressure offers flexible duct design that blends in with any interior décor in stores and offices



- High efficiency Hi-X heat exchanger coils that provide even more energy savings.
- High external static pressure allows comprehensive duct layout for various applications.
  120 Pa for FXDYQ80MA–145MA
- Design of indoor units allows installation in limited roof spaces.
- Return air spigots included for ease of installation for FXDYQ80MA-145MA models.
- Two external static pressure settings for added flexibility.
- Quiet yet powerful supply air fan.
- High strength galvanised steel casing.

Specifications

MODEL			FXDYQ80MAV1	FXDYQ100MAV1	FXDYQ125MAV1	FXDYQ145MAV1
Power supply			1-phase, 220-240 V, 50 Hz			
Cooling capacity		Btu/h	30,000	38,200	47,400	54,600
		kW	8.8	11.2	13.9	16.0
Heating capacity		Btu/h	33,800	42,700	54,600	62,800
		kW	9.9	12.5	16.0	18.4
Power consumption	Cooling	kW	0.415	0.700	0.780	0.880
	Heating	kW	0.415	0.700	0.780	0.880
Casing			Galvanised steel plate			
Airflow rate (H)		ℓ/s	510	778	852	957
		m³/min	30.6	46.7	51.1	57.4
External static pressure		Pa	120 ★1			
Sound level (H)	240 V	dB(A)	45	46	48	51
Dimensions (H×W×D)		mm	360×1168×869		360×1478×899	
Machine weight		kg	50	60	65	66
Piping connections	Liquid (Flare)	mm	ϕ 9.5			
	Gas (Flare)		ϕ15.9			
	Drain		VP25 (External Dia. 32/Internal Dia. 25)			

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

★1: External static pressure is changeable to change over the connectors inside electrical box (High static pressure-Standard static pressure).
The data above is for high static pressure setting.

Middle Static Pressure Ceiling Mounted Duct Type

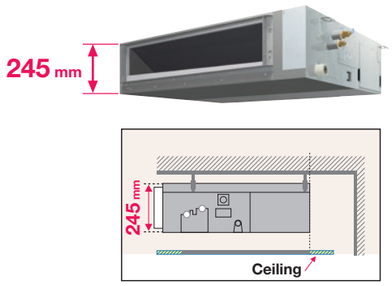
FXSQ-PA

Middle static pressure and slim design allow flexible installations

Installation flexibility

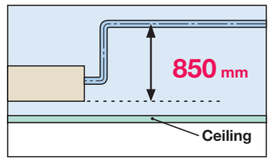
Slim design

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



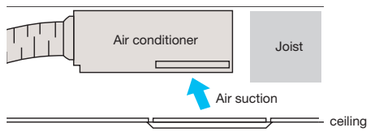
Standard DC drain pump

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



Bottom suction possible

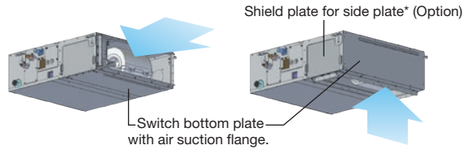
- Bottom suction is possible which facilitate installation and maintenance. Wiring connections and maintenance of control box can be done from under the unit with an optional shield plate for side plate*, extending the degree of freedom for installation in the ceiling.



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

•Rear suction

•Bottom suction

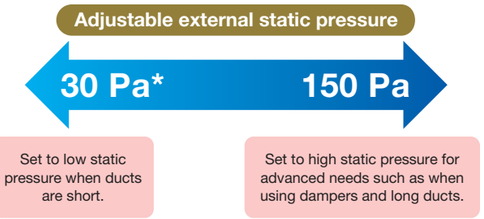


*An optional shield plate for side plate is required if wiring connections and maintenance of control box are needed from under the unit. This option is only available for FXSQ20-125PA models.

Design flexibility

Adjustable external static pressure

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



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

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

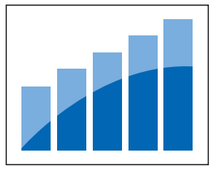
Comfort

Switchable airflow rate

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

Auto airflow rate

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



Low operation sound level

(dB(A))

FXSQ-PAVE	20/25	32	40	50	63
Sound level (H/M/L)	33/30/28	34/32/30	36/33/30	34/32/29	36/32/29

FXSQ-PAVE	80	100	125	140
Sound level (H/M/L)	37.5/34/30	39/35/32	42/38.5/35	43/40/36

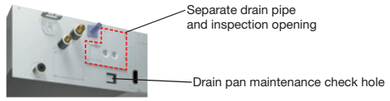
Easy installation

Airflow rate auto adjustment function

- During installation, even if the external static pressure changes due to a change in the duct route, the airflow can be automatically adjusted to within the unit's external static pressure range.

Easy maintenance

- Inspection and cleaning is facilitated by separating the drain pipe and inspection opening and by the drain pan maintenance check hole.



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

- Airflow rate can be controlled using a remote controller during test operation. It is automatically adjusted to the range between approximately ±10% of the rated H tap airflow.

Specifications

MODEL			FXSQ20PAVE	FXSQ25PAVE	FXSQ32PAVE	FXSQ40PAVE	FXSQ50PAVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz				
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100
		kW	2.2	2.8	3.6	4.5	5.6
Heating capacity		Btu/h	8,500	10,900	13,600	17,100	21,500
		kW	2.5	3.2	4.0	5.0	6.3
Power consumption	Cooling	kW	0.058 ★1		0.066 ★1	0.101 ★1	0.075 ★1
	Heating	kW	0.053 ★1		0.061 ★1	0.096 ★1	0.070 ★1
Casing			Galvanised steel plate				
Airflow rate (H/M/L)		ℓ/s	150/125/108		158/133/116	250/208/175	283/242/192
		m³/min	9/7.5/6.5		9.5/8/7	15/12.5/10.5	17/14.5/11.5
External static pressure		Pa	30-150 (50) ★2				50-150 (50) ★2
Sound level (H/M/L)		dB(A)	33/30/28		34/32/30	36/33/30	34/32/29
Sound power (H)		dB(A)	61		62	64	62
Dimensions (H×W×D)		mm	245×550×800			245×700×800	245×1,000×800
Machine weight		kg	25			27	35
Piping connections	Liquid (Flare)	mm	ϕ6.4				
	Gas (Flare)		ϕ12.7				
	Drain		VP25 (External Dia. 32/Internal Dia. 25)				

MODEL			FXSQ63PAVE	FXSQ80PAVE	FXSQ100PAVE	FXSQ125PAVE	FXSQ140PAVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz				
Cooling capacity		Btu/h	24,200	30,700	38,200	47,800	54,600
		kW	7.1	9.0	11.2	14.0	16.0
Heating capacity		Btu/h	27,300	34,100	42,700	54,600	61,400
		kW	8.0	10.0	12.5	16.0	18.0
Power consumption	Cooling	kW	0.106 ★1	0.126 ★1	0.151 ★1	0.206 ★1	0.222 ★1
	Heating	kW	0.101 ★1	0.121 ★1	0.146 ★1	0.201 ★1	0.217 ★1
Casing			Galvanised steel plate				
Airflow rate (H/M/L)		ℓ/s	350/292/242	383/325/267	533/450/375	617/525/433	650/558/467
		m³/min	21/17.5/14.5	23/19.5/16	32/27/22.5	37/31.5/26	39/33.5/28
External static pressure		Pa	50-150 (50) ★2				50-140 (50) ★2
Sound level (H/M/L)		dB(A)	36/32/29	37.5/34/30	39/35/32	42/38.5/35	43/40/36
Sound power (H)		dB(A)	64	65.5	67	70	71
Dimensions (H×W×D)		mm	245×1,000×800		245×1,400×800		245×1,550×800
Machine weight		kg	35	37	46	47	52
Piping connections	Liquid (Flare)	mm	ϕ9.5				
	Gas (Flare)		ϕ15.9				
	Drain		VP25 (External Dia. 32/Internal Dia. 25)				

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

★1: Power consumption values are based on conditions of rated external static pressure.
★2: External static pressure can be modified using a remote controller that offers thirteen (FXSQ20-40PA), eleven (FXSQ50-125PA) or ten (FXSQ140PA) levels of control. These values indicate the lowest and highest possible static pressures. The rated static pressure is 50 Pa.

Ceiling Mounted Duct Type

FXMQ-P(A)

Middle and high static pressure allows for flexible duct design

FXMQ20PA / FXMQ25PA / FXMQ32PA / FXMQ40PA
FXMQ50PA / FXMQ63PA / FXMQ80PA / FXMQ100PA
FXMQ125PA / FXMQ140PA

FXMQ160P / FXMQ180P / FXMQ200P
FXMQ250P

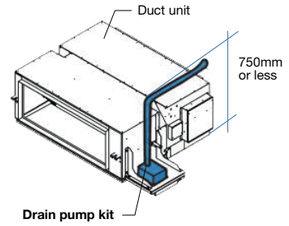
- Each model is fitted with a high efficiency DC fan motor with adjustable external static pressure to suit your duct design. The available ranges for each model are listed below:
  30 Pa – 100 Pa for FXMQ20PA-32PA
  30 Pa – 160 Pa for FXMQ40PA
  50 Pa – 200 Pa for FXMQ50PA-125PA
  50 Pa – 140 Pa for FXMQ140PA
  60 Pa – 217 Pa for FXMQ160P
  50 Pa – 210 Pa for FXMQ180P
  50 Pa – 250 Pa for FXMQ200P-250P

- The adopted DC fan motor is much more energy efficient than a conventional AC motor, yielding an approximate 20% decreased in energy consumption (FXMQ125PA).

- FXMQ20PA-140PA models are only 300mm in height making it ideal for use in modern commercial and medium density apartment development where ceiling spaces are tight.

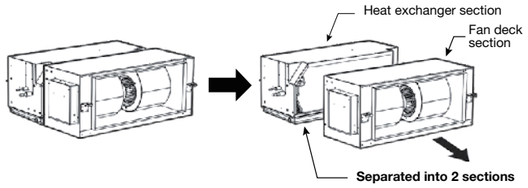
- Control of the airflow rate can be selected from 3-step control and Auto. Auto airflow rate control can be selected with wired remote controller BRC1E63 for FXMQ20PA-140PA models.

- A built-in drain pump with 700mm lift is equipped as a standard accessory for FXMQ20PA-140PA models. For FXMQ160P-250P models, a 750mm drain pump kit is available as an optional accessory.



- Automatic Airflow Adjustment feature allows the fan speed to adjust automatically to suit your duct design during commissioning, simplifying the process and saving time. The airflow is adjusted to a range between ±10% of the model's rated airflow.

- To facilitate installation, the FXMQ160P-250P models can be separated into 2 sections for convenient handling and easier installation through openings in the ceiling.



Specifications

MODEL			FXMQ20PAVE	FXMQ25PAVE	FXMQ32PAVE	FXMQ40PAVE	FXMQ50PAVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz				
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100
		kW	2.2	2.8	3.6	4.5	5.6
Heating capacity		Btu/h	8,500	10,900	13,600	17,100	21,500
		kW	2.5	3.2	4.0	5.0	6.3
Power consumption *1	Cooling	kW	0.056		0.060	0.151	0.128
	Heating	kW	0.044		0.048	0.139	0.116
Casing			Galvanised steel plate				
Airflow rate (HH/H/L)		ℓ/s	150/125/108		158/133/116	267/216/183	300/275/250
		m³/min	9/7.5/6.5		9.5/8/7	16/13/11	18/16.5/15
External static pressure*2		Pa	30-100 (50)			30-160 (100)	50-200 (100)
Sound level (HH/H/L)		dB(A)	33/31/29		34/32/30	39/37/35	41/39/37
Sound power (H)		dB(A)	51		52	57	59
Dimensions (H×W×D)		mm	300x550x700			300x700x700	300x1,000x700
Machine weight		kg	25			27	35
Piping connections	Liquid (Flare)	mm	ϕ6.4				
	Gas (Flare)		ϕ12.7				
	Drain		VP25 (External Dia. 32/Internal Dia. 25)				

MODEL			FXMQ63PAVE	FXMQ80PAVE	FXMQ100PAVE	FXMQ125PAVE	FXMQ140PAVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz				
Cooling capacity		Btu/h	24,200	30,700	38,200	47,800	54,600
		kW	7.1	9.0	11.2	14.0	16.0
Heating capacity		Btu/h	27,300	34,100	42,700	54,600	61,400
		kW	8.0	10.0	12.5	16.0	18.0
Power consumption *1	Cooling	kW	0.138	0.185	0.215	0.284	0.405
	Heating	kW	0.127	0.173	0.203	0.272	0.380
Casing			Galvanised steel plate				
Airflow rate (HH/H/L)		ℓ/s	325/292/267	417/375/333	533/450/383	650/550/466	767/649/533
		m³/min	19.5/17.5/16	25/22.5/20	**32/27/23**	39/33/28	46/39/32
External static pressure*2		Pa	50-200 (100)				50-140 (100)
Sound level (HH/H/L)		dB(A)	42/40/38	43/41/39		44/42/40	46/45/43
Sound power (H)		dB(A)	60	61		62	64
Dimensions (H×W×D)		mm	300x1,000x700		300x1,400x700		
Machine weight		kg	35		45		46
Piping connections	Liquid (Flare)	mm	ϕ9.5				
	Gas (Flare)		ϕ15.9				
	Drain		VP25 (External Dia. 32/Internal Dia. 25)				

MODEL			FXMQ160PV1A	FXMQ180PV1A	FXMQ200PV1A	FXMQ250PV1A
Power supply			1-phase, 220-240 V, 50 Hz			
Cooling capacity		Btu/h	61,400	68,200	76,400	95,500
		kW	18.0	20.0	22.4	28.0
Heating capacity		Btu/h	68,200	76,400	85,300	107,500
		kW	20.0	22.4	25.0	31.5
Power consumption *1	Cooling	kW	0.650		0.640	0.810
	Heating	kW	0.650		0.640	0.810
Casing			Galvanized steel plate			
Airflow rate (HH/H/L)		ℓ/s	1,120/955/790	1,160/995/820	1,200/1,025/850	1,400/1,200/1,000
		m³/min	67.2/57.3/47.4	69.6/59.7/49.2	72.0/61.5/51.0	84.0/72.0/60.0
External static pressure*2		Pa	60-217 (138)	50-210 (130)	50-250 (150)	
Sound level (HH/H/L)		dB(A)	45/41.5/38		44/40.5/37	46/42.5/39
Sound power (H)		dB(A)	73		72	74
Dimensions (H×W×D)		mm	470x1,133x919		470x1,333x919	
Machine weight		kg	70		79	85
Piping connections	Liquid	mm	ϕ9.5 (Flare)	ϕ 9.5 (Brazing)		
	Gas		ϕ15.9 (Flare)	ϕ 19.1 (Brazing)		ϕ 22.2 (Brazing)
	Drain		BSP 3/4 internal thread (OD ϕ32.7)			

Note: Specifications are based on the following conditions;
- •Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- •Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- •Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- •Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- ★1: Power consumption values are based on conditions of rated external static pressure.
- ★2: External static pressure can be modified using a remote controller that offers seven (FXMQ20-32PA), thirteen (FXMQ40PA), fourteen (FXMQ50-125PA), ten (FXMQ140PA) or fifteen (FXMQ160-250P) levels of control.
  These values indicate the lowest and highest possible static pressures. The rated static pressure is 50 Pa for FXMQ20-32PA 100 Pa for FXMQ40-140PA, 138 Pa for FXMQ160P, 130 Pa for FXMQ180P and 150 Pa for FXMQ200-250P.

Ceiling Suspended Type

New FXHQ-MA / A

Slim body with quiet and wide airflow

FXHQ32 / 63 / 100MA

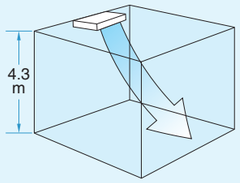
New FXHQ125 / 140A

New 125 / 140 models provide greater capacity for large spaces

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

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

- Suitable for high ceilings



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

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

- Wireless LCD remote controller
  - A signal receiver must be added to the indoor unit.

BRC7M53

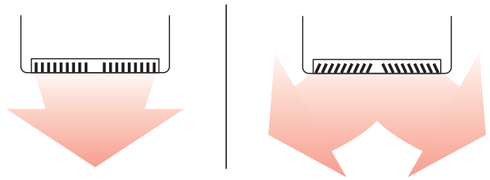
Signal receiver unit (Installed type)

Wireless remote controller is supplied in a set with a signal receiver.

Comfort

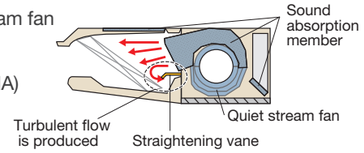
- Auto swing (up and down) and louvers (left and right by hand) bring comfort to the room.

- Louver manually adjusts for straight or wide angle airflow.



Quiet operation

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

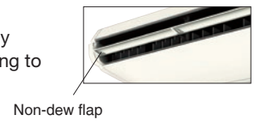


dB(A)

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

Easy maintenance

- Non-dew flap
  - Condensation does not easily form on and dirt does not cling to non-dew flap. It is easy to clean.



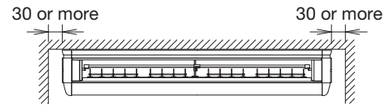
- Easy-clean, flat surfaces
  - It is easy to wipe dirt off the flat side and lower surfaces of the unit.
- Oil-resistant plastic is used for the air suction grille. This satisfies durability in restaurants and other similar environments.

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

Installation flexibility

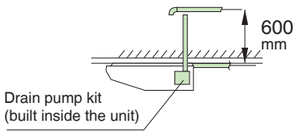
- Flexible installation
  - The unit fits more snugly into tight spaces.

[Required installation space (mm)]



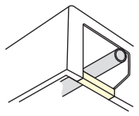
*Water used in the test-run can be drained from the air discharge opening rather than from the side as was formerly the case.

- Drain pump kit (option) can be easily incorporated.
  - Drain pipe connection can be done inside the unit. Refrigerant and drain pipe outlets are at the same opening.



- All wiring and internal servicing can be done from under the unit.

- The rear side removable frame allows ease of access for piping work.



Specifications

MODEL			FXHQ32MAVE	FXHQ63MAVE	FXHQ100MAVE	FXHQ125AVM	FXHQ140AVM
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz			1-phase, 220-240 V/220-230 V, 50/60 Hz	
Cooling capacity		Btu/h	12,300	24,200	38,200	48,000	52,900
		kW	3.6	7.1	11.2	14.1	15.5
Heating capacity		Btu/h	13,600	27,300	42,700	54,600	58,000
		kW	4.0	8.0	12.5	16.0	17.0
Power consumption	Cooling	kW	0.111	0.115	0.135	0.168	0.181
	Heating		0.111	0.115	0.135	0.168	0.181
Casing			Sheet Metal / White (10Y9/0.5)			Sheet Metal / White	
Airflow rate (H/M/L)		ℓ/s	200/-/166	291/-/233	416/-/325	567/433/333	600/450/333
		m³/min	12/-/10	17.5/-/14	25/-/19.5	34/26/20	36/27/20
Sound level (H/M/L)		dB(A)	36/-/31	39/-/34	45/-/37	46/41/37	48/42/37
Dimensions (H×W×D)		mm	195×960×680	195×1,160×680	195×1,400×680	235×1,590×690	
Machine weight		kg	24	28	33	41	
Piping connections	Liquid (Flare)	mm	ϕ6.4	ϕ9.5			
	Gas (Flange)		ϕ12.7	ϕ15.9			
	Drain		VP20 (External Dia. 26/Internal Dia. 20)				

Note: Specifications are based on the following conditions;
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Wall Mounted Type

New FXAQ-A

Stylish flat panel design harmonised with your interior décor

Higher airflow

- An invisible air intake at the top of the unit
- Vertical auto-swing enables efficient air and temperature distribution throughout the room.
- The louver closes automatically when the unit stops.
- Enhanced comfort is achieved.
- 5 step discharge angles can be set by remote controller.
- Discharge angle is automatically set at the same angle as previous operation when restart.

MODEL			FXAQ20A	FXAQ25A	FXAQ32A	FXAQ40A	FXAQ50A	FXAQ63A
Airflow rate	H	m³/min	9.1	9.4	9.8	12.2	15.0	19.0
	L		7.0	7.0	7.0	9.7	12.0	14.0

Lower sound level

- Whisper quiet in operation, with sound levels as low as 28.5 dB(A)*
  *Sound level for FXAQ20-32A
- An ideal solution for a wide range of commercial spaces, including individual office spaces.

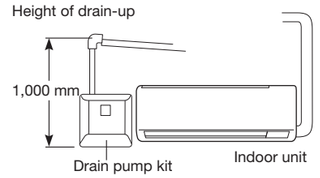
Wireless LCD remote controller

- A signal receiver must be added to the indoor unit.

BRC7M675

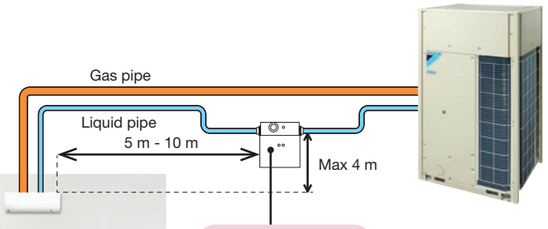
MODEL			FXAQ20A	FXAQ25A	FXAQ32A	FXAQ40A	FXAQ50A	FXAQ63A
Sound level	H	dB(A)	33.0	35.0	37.5	37.0	41.0	46.5
	L		28.5	28.5	28.5	33.5	35.5	38.5

- Stylish flat panel design creates a graceful harmony that enhances any interior space.
- Flat panel can be cleaned with only the single pass of a cloth across their smooth surface.
  Flat panel can also be easily removed and washed for more thorough cleaning.
- Drain pan and air filter can be kept clean by mould-proof polystyrene.
- Flexible installation
  - Drain pipe can be fitted to from either left or right sides.
- Drain pump kit is available as optional accessory, which lifts the drain 1,000 mm from the bottom of the unit.



External EV kit (for heating operation) (Option)

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



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

External EV kit
(for heating operation)

Specifications

MODEL			FXAQ20AVM	FXAQ25AVM	FXAQ32AVM	FXAQ40AVM	FXAQ50AVM	FXAQ63AVM
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz					
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption	Cooling	kW	0.040	0.040	0.040	0.050	0.060	0.100
	Heating		0.040	0.040	0.050	0.050	0.070	0.110
Casing			Resin / White N9.5					
Airflow rate (H/L)		ℓ/s	151/116	156/116	163/116	203/161	250/200	316/233
		m³/min	9.1/7.0	9.4/7.0	9.8/7.0	12.2/9.7	15.0/12.0	19.0/14.0
Sound level (H/L)	Cooling	dB(A)	33.0/28.5	35.0/28.5	37.5/28.5	37.0/33.5	41.0/35.5	46.5/38.5
	Heating		34.0/28.5	36.0/28.5	38.5/28.5	38.0/33.5	42.0/35.5	47.0/38.5
Dimensions (H×W×D)		mm	290×795×266			290×1,050×269		
Machine weight		kg	12			15		
Piping connections	Liquid (Flare)	mm	φ6.4					φ9.5
	Gas (Flange)		φ12.7					φ15.9
	Drain		VP13 (External Dia. 18/Internal Dia. 15)					

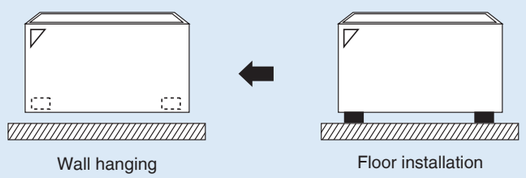
Note: Specifications are based on the following conditions;
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, 15°CWB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Floor Standing Type FXLQ-MA

Suitable for perimeter zone air conditioning

- Floor Standing types can be hung on the wall for easier cleaning. Running the piping from the back allows the unit to be hung on walls. Cleaning under the unit, where dust tends to accumulate, is considerably easier.
- The adoption of a fibre-less discharge grille featuring an original design to prevent condensation also helps prevent staining and makes cleaning easier.
- A long-life filter (maintenance free up to one year*) is equipped as standard accessory.

* 8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m³



Specifications

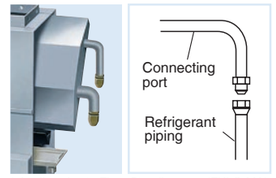
MODEL			FXLQ20MAVE	FXLQ25MAVE	FXLQ32MAVE	FXLQ40MAVE	FXLQ50MAVE	FXLQ63MAVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz					
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption	Cooling	kW	0.049		0.090		0.110	
	Heating	kW	0.049		0.090		0.110	
Casing			FXLQ: Ivory white (5Y7.5/1)					
Airflow rate (H/L)		ℓ/s	116/100		133/100	183/141	233/183	266/200
		m³/min	7/6		8/6	11/8.5	14/11	16/12
Sound level (H/L)	240 V	dB(A)	37/34			40/35	41/36	42/37
Dimensions (H×W×D)		mm	600×1,000×222		600×1,140×222		600×1,420×222	
Machine weight		kg	25.0		30.0		36.0	
Piping connections	Liquid (Flare)	mm	ϕ6.4					ϕ9.5
	Gas (Flare)		ϕ12.7					ϕ15.9
	Drain		21O.D.					

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

Concealed Floor Standing Type FXNQ-MA

Designed to be concealed in the perimeter skirting-wall

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



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

- A long-life filter (maintenance free up to one year*) is equipped as standard accessory.

* 8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m³

Specifications

MODEL			FXNQ20MAVE	FXNQ25MAVE	FXNQ32MAVE	FXNQ40MAVE	FXNQ50MAVE	FXNQ63MAVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz					
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption	Cooling	kW	0.049		0.090		0.110	
	Heating	kW	0.049		0.090		0.110	
Casing			FXNQ: Galvanised steel plate					
Airflow rate (H/L)		ℓ/s	116/100		133/100	183/141	233/183	266/200
		m³/min	7/6		8/6	11/8.5	14/11	16/12
Sound level (H/L)	240 V	dB(A)	37/34			40/35	41/36	42/37
Dimensions (H×W×D)		mm	610×930×220		610×1,070×220		610×1,350×220	
Machine weight		kg	19.0		23.0		27.0	
Piping connections	Liquid (Flare)	mm	ϕ6.4					ϕ9.5
	Gas (Flare)		ϕ12.7					ϕ15.9
	Drain		21O.D.					

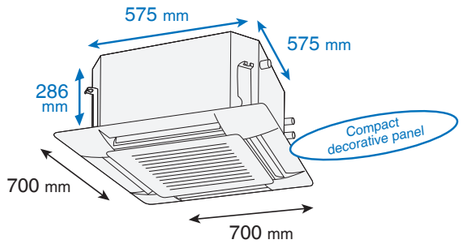
Note: Specifications are based on the following conditions;
- •Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- •Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
-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

Ceiling Mounted Cassette (Compact Multi Flow) Type

FFQ-B

Quiet, compact, and designed for user comfort

●Designed to fit 600 mm wide ceiling grids



Option

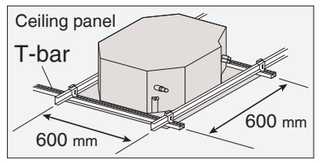
Note: Remote controller cables not included. Cables should be obtained locally.

Option

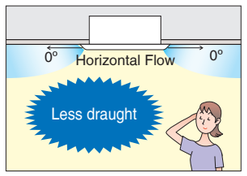
Signal receiver unit

Note: Wireless remote controllers and signal receiver units are sold as a set.

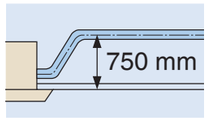
●T-bar grid does not need to be cut.



●Low draft performance is designed for your comfort.



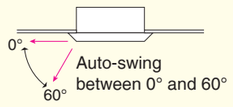
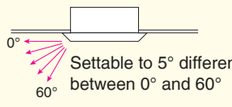
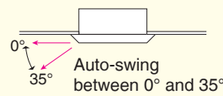
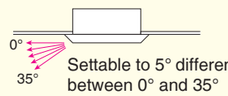
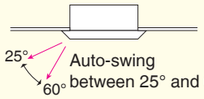
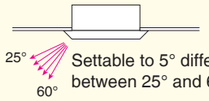
●Drain pump is equipped as standard accessory with 750 mm lift.



●Comfortable across all areas

Conditioned air is distributed evenly by Auto-swing operation.

Adjustable airflow angle to suit all room conditions.

	AUTO-SWING	5 direction
Standard setting	 Auto-swing between 0° and 60°	 Settable to 5° different levels between 0° and 60°
Draft prevention setting (Set on site)	 Auto-swing between 0° and 35°	 Settable to 5° different levels between 0° and 35°
Setting to prevent soiling of ceiling (Set on site)	 Auto-swing between 25° and 60°	 Settable to 5° different levels between 25° and 60°

Note: Angles shown above are provided as a guide. They may differ depending on the installation site.

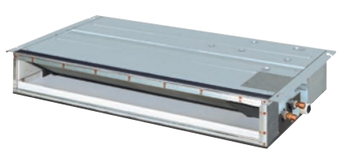
Specifications

MODEL			FFQ25BV1B	FFQ35BV1B	FFQ50BV1B	FFQ60BV1B
Power supply			1-phase, 220-240 V, 50 Hz			
Airflow rate (H)		m³/min(ℓ/s)	9.0 (150)	10.0 (167)	12.0 (200)	15.0 (250)
Sound level (H/L)*		dB(A)	29.5/24.5	32/25	36/27	41/32
Sound power level (H)		dB(A)	46.5	49	53	58
Fan speed			2 steps			
Temperature control			Microcomputer control			
Dimensions (H×W×D)		mm	286x575x575			
Machine weight		kg	17.5			
Piping connections	Liquid (Flare)	mm	ϕ6.4			
	Gas (Flare)		ϕ9.5		ϕ12.7	
	Drain		VP20 (External Dia. 26/Internal Dia. 20)			
Heat insulation			Both liquid and gas pipes			
Panel (Option)	Model		BYFQ60B3W1			
	Colour		White			
	Dimensions(H×W×D)	mm	55x700x700			
	Weight	kg	2.7			

Note: * Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

Slim Ceiling Mounted Duct Type — FDXS-C

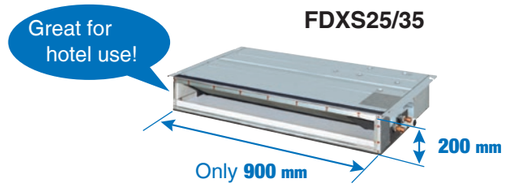
Slim and smooth design suits your shallow ceiling

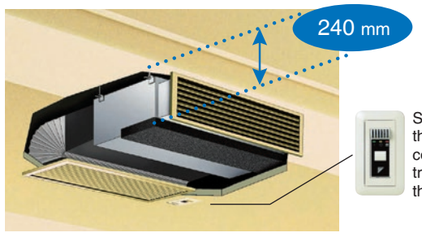


Standard accessory

Option

- Models in the FDXS25/35 series are only 900 mm in width and 25 kg in weight, so are easily installed in limited spaces. Just 200 mm in height, all models can be installed in rooms with as little as 240 mm depth between the drop ceiling and ceiling slab, making them ideal for even shallow ceilings.

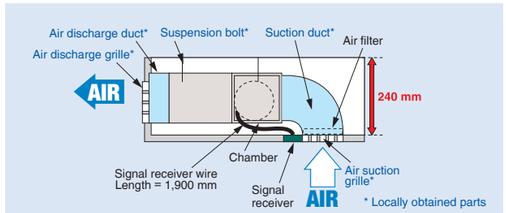




Signals from the wireless remote controller are transmitted to the signal receiver.

- Home Leave Operation prevents large rises or falls in the indoor temperature by continuing operation* while you are sleeping or out of your home. This means that an air-conditioned welcome awaits when you wake or return. It also means that the indoor temperature can quickly return to your favourite comfort setting.

* Home Leave Operation can be selected for any temperature from 18 to 32˚C for cooling operation and 10 to 30˚C for heating operation.
* Home Leave Operation function must be set using the remote controller when going to sleep or leaving the house, and after waking up or returning home.



Note:
1. To prevent an increase in operation noise, avoid installing the air suction grille directly below the suction chamber.
2. Grilles, piping connections, ducts, and installation parts should be obtained locally. Slim Ceiling Mounted Duct type models do not have drain-up pumps.
3. The signal receiver unit must be located near the air suction inlet, because the unit includes a sensor that detects room temperature.

Specifications

MODEL			FDXS25CVMA	FDXS35CVMA	FDXS50CVMA	FDXS60CVMA
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz			
Airflow rate (H)		m³/min(ℓ/s)	9.5 (158)	10.0 (167)	12.0 (200)	16.0 (267)
Sound level (H/L/SL)*		dB(A)	35/31/29		37/33/31	38/34/32
Sound power (H)		dB(A)	53		55	56
Fan speed			5 steps, quiet and automatic			
Temperature control			Microcomputer control			
Dimensions (H×W×D)		mm	200x900x620			200x1,100x620
Machine weight		kg	25		27	30
Piping connections	Liquid (Flare)	mm	ϕ6.4			
	Gas (Flare)		ϕ9.5		ϕ12.7	
	Drain		VP20 (External Dia. 26/Internal Dia. 20)			
Heat insulation			Both liquid and gas pipes			
External static pressure		Pa	40			

Note: * The operation sound level values represent those for rear-suction operation and an external static pressure of 40 Pa.
Sound level values for bottom-suction operation can be obtained by adding 5 dB (A).

Wall Mounted Type — FTXS-K(A)

Stylish flat panel harmonises with your interior décor

Standard accessory

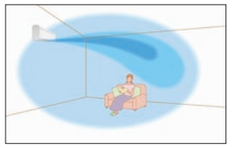
Option

- Intelligent Eye with its infrared sensor automatically controls air conditioner operation according to human movement in a room. When there is no movement, it adjusts the temperature by 2˚C for energy savings.

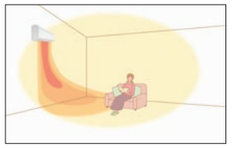
When you are in the room

When you go out

- Comfort Airflow Mode prevents uncomfortable drafts from blowing directly on to your body. With this function, when you press the COMFORT button during cooling operation, the flap moves upward to prevent direct cold drafts. During heating operation, it also moves downward to prevent direct drafts and deliver warm air to the floor.



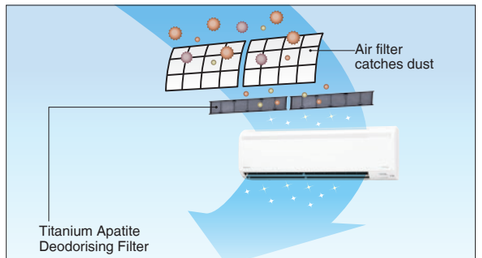
Cooling operation



Heating operation

Titanium Apatite Deodorising Filter

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

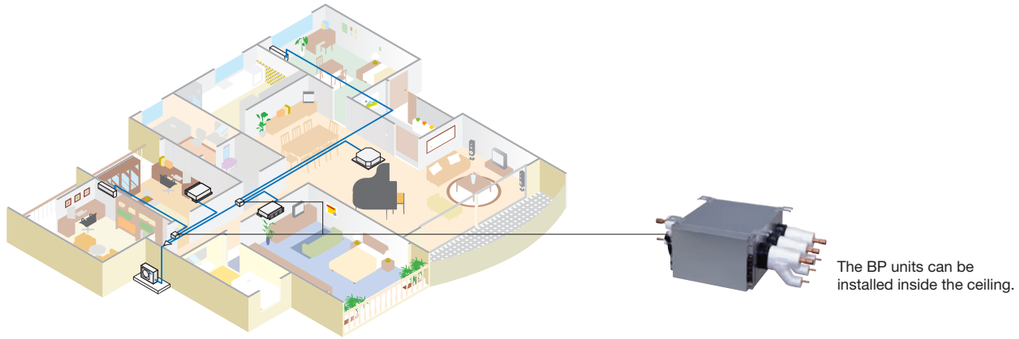


This filter is not a medical device. Benefits such as the adsorption of odours and allergens and deodorisation of odours are only effective for substances which are directly attached to the Titanium Apatite Deodorising Filter.

Specifications

MODEL			FTXS20KVMA	FTXS25KVMA	FTXS35KVMA	FTXS50KAVMA	FTXS60KAVMA	FTXS71KAVMA
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz					
Front panel colour			White					
Airflow rate (H)	Cooling	m³/min(ℓ/s)	9.7 (161)		11.3 (188)	14.7 (245)	16.2 (270)	17.4 (290)
	Heating		10.5 (175)		11.5 (191)	16.2 (270)	17.4 (290)	21.5 (358)
Sound level (H/L/SL)	Cooling	dB(A)	38/25/22		42/26/23	44/35/32	45/36/33	46/37/34
	Heating		39/28/25		42/29/26	42/33/30	44/35/32	46/37/34
Sound power (H)	Cooling	dB(A)	54		58	60	61	62
	Heating		55		58		60	62
Fan speed			5 steps, quiet and automatic					
Temperature control			Microcomputer control					
Dimensions (H×W×D)		mm	295x800x215			290x1,050x250		
Machine weight		kg	9		10	12		
Piping connections	Liquid (Flare)	mm	ϕ6.4					
	Gas (Flare)		ϕ9.5			ϕ12.7		ϕ15.9
	Drain		I.Dϕ14.0xO.Dϕ18.0					
Heat insulation			Both liquid and gas pipes					

BP Units for Connection to Residential Indoor Units



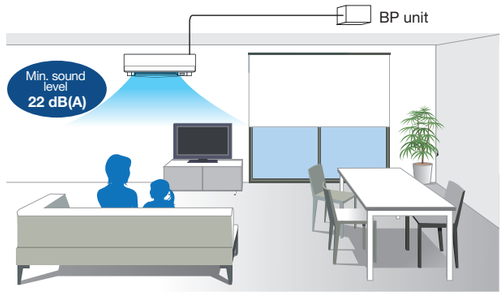
The BP units can be installed inside the ceiling.

Connectable to Residential Indoor Units

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

Quiet Operating Sound

Expansion valves tend to create refrigerant passing noise. However, this noise can be reduced by installing the valves in BP units. The units can be fitted inside the ceiling or roof-space far from an indoor unit.
Some Daikin residential indoor units also provide minimum sound levels of just 22 dB(A). Together these features ensure your system continues to operate as quietly as possible.



Specifications

BPMKS967A3

BPMKS967A2

MODEL				BPMKS967A3	BPMKS967A2
Power supply				1-phase, 220-240 V/220-230 V, 50/60 Hz	
Number of ports				3 (connectable to 1-3 indoor units)	2 (connectable to 1-2 indoor units)
Power consumption			W	10	
Running current			A	0.05	
Dimensions (HXWXD)			mm	180X294(+356*)X350	
Machine weight			kg	8	7.5
Number of wiring connections				3 for power supply (including earth wiring), 2 for interunit wiring (outdoor unit-BP, BP-BP), 4 for interunit wiring (BP-indoor unit)	2 for power supply (including earth wiring), 2 for interunit wiring (outdoor unit-BP, BP-BP), 3 for interunit wiring (BP-indoor unit)
Piping connections (Brazing)	Liquid	Main	mm	ϕ9.5X1	
		Branch		ϕ6.4X3	ϕ6.4X2
	Gas	Main	mm	ϕ19.1X1	
		Branch		ϕ15.9X3	ϕ15.9X2
Heat insulation				Both liquid and gas pipes	
Connectable indoor units				2.0 kW class to 7.1 kW class	
Min. rated capacity of connectable indoor units			kW	2.0	
Max. rated capacity of connectable indoor units			kW	20.8	14.2

Note: * Total auxiliary piping length.

BS Units for Heat Recovery

Specifications — Individual BS Unit

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

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

4 branch

16 branch

Specifications — Centralised BS Unit

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

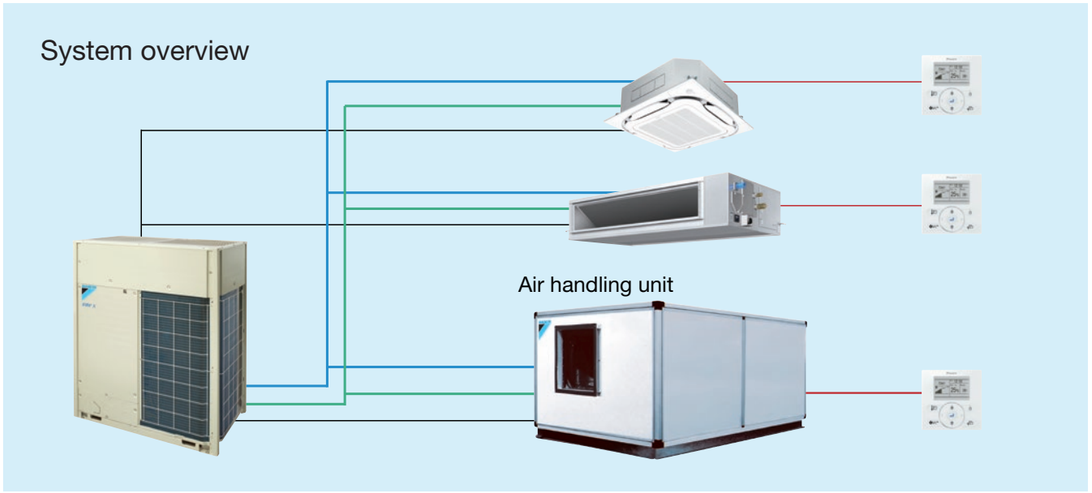
Note: ★1. When connecting with an indoor unit with a capacity index between 20 and 50, connect the attached pipe to the field pipe. (Braze connection between the attached and field pipe.) In case of others, cut the outlet pipe and connect to the connecting pipe.
★2. Reducer may be required (obtain locally)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

Air Handling Unit

Integrate your air handling unit in a total solution for large size spaces such as factories and large stores.

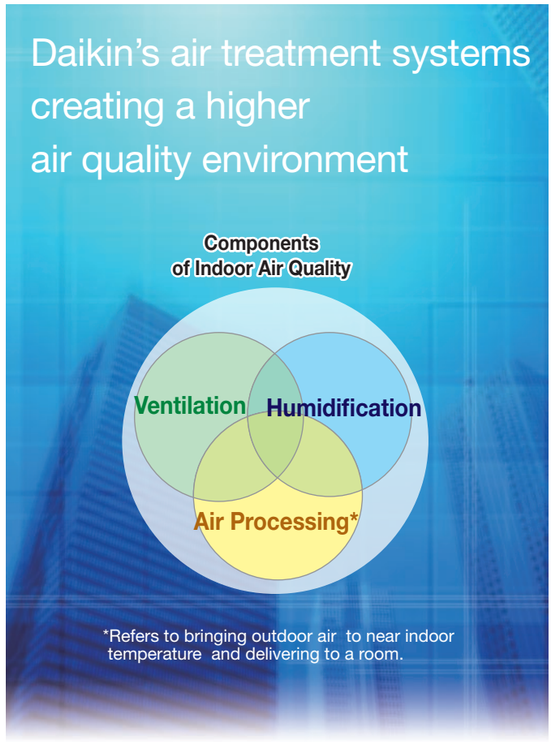
AHUR
Capacity range : 6 – 160 class

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



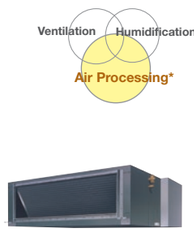
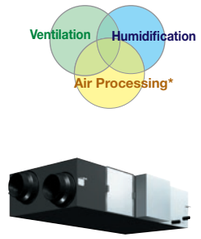
Daikin air handling units can be connected to *VRV* systems.
This combination can be built to order as a system. Outdoor air series is also possible. Please contact your local sales office for details.

Air Treatment Equipment Lineup



A recent trend rapidly gaining popularity is for air treatment to be required as well as air conditioning. Daikin's Outdoor-Air Processing Unit can combine fresh air treatment and air conditioning, supplied from a single system. It adjusts the temperature of air from outdoors using a fixed discharge temperature control. Along with Outdoor-Air Processing Units, we also offer Heat Reclaim Ventilator systems. The Heat Reclaim Ventilator VAM-GJ series units in particular have been praised for their compactness, energy conservation and extensive operation range of outdoor temperatures. This series provides higher enthalpy efficiency ★1 due to the greatly enhanced performance of the thin film element. Furthermore, improved external static pressure ★2 offers more flexibility for installation. The Heat Reclaim Ventilator VKM-GAM series units, equipped with a DX-coil and a humidifier, provide further advanced features, such as temperature adjustment to suit conditions indoors and to prevent cold air from blowing on people directly during heating operation. The series also realises significant energy savings by exercising heat recovery.

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

		Outdoor-Air Processing Unit	Heat Reclaim Ventilator		
			VKM-GAM Type	VKM-GA Type	VAM-GJ Type
					
Connections with *VRV* system	Refrigerant Piping	Connectable	Connectable		Not connectable
	Wiring	Connectable	Connectable		Connectable
	After-cool & After-heat Control	Available	Available		Not available
Heat Exchange Element		–	Energy savings obtained		Energy savings obtained
Humidifier		–	Fitted	–	–
High Efficiency Filter		Option	Option		Option
Ventilation System		Air supply only	Air supply & air exhaust		Air supply & air exhaust
Power Supply		220-240 V, 50 Hz	220-240 V, 50 Hz		220-240 V/220 V, 50/60 Hz
Airflow Rate		1080 m^3/h 1680 m^3/h 2100 m^3/h	500 m^3/h 800 m^3/h 1000 m^3/h		150 m^3/h 250 m^3/h 350 m^3/h 500 m^3/h 650 m^3/h 800 m^3/h 1000 m^3/h 1500 m^3/h 2000 m^3/h

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

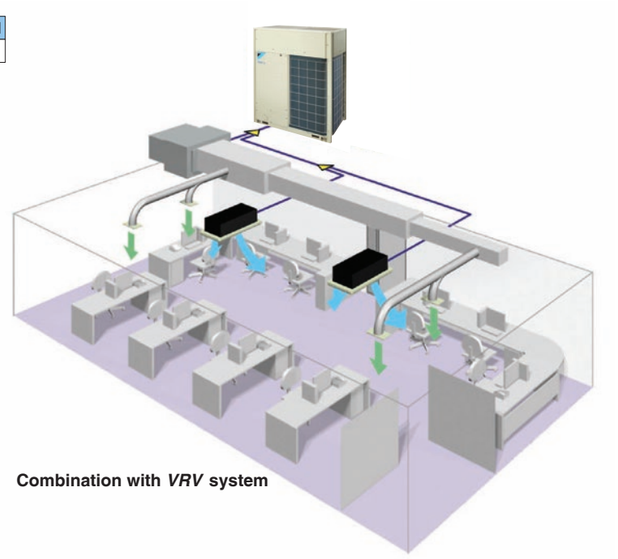
Outdoor-Air Processing Unit

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

Lineup

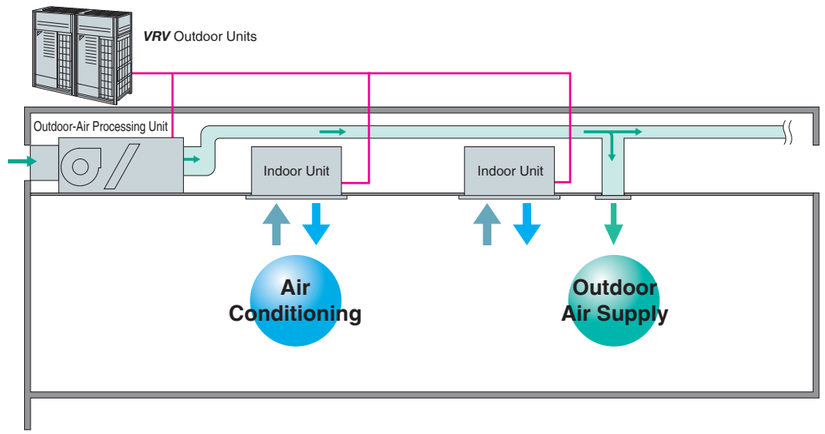
Model Name	FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1
Capacity Index	125	200	250

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



Combination with *VRV* system

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



Connection Conditions

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

- When outdoor-air processing units are connected, the total connection capacity index must be 50% to 100% of the capacity index of the outdoor units.
- When outdoor-air processing units and standard indoor units are connected, the total connection capacity index of the outdoor-air processing units must not exceed 30% of the capacity index of the outdoor units.
  Because connection is possible depending on conditions ever when the capacity index of outdoor-air processing units exceeds 30% of the capacity index of the outdoor units, contact your local distributor.
- Outdoor-air processing units can be used without indoor units.

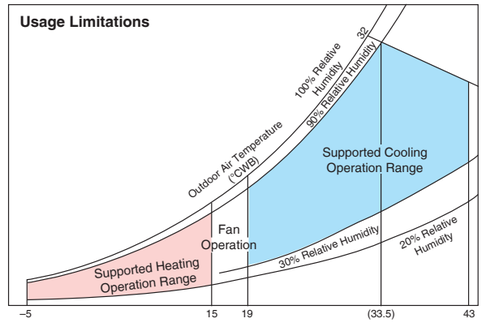
- The unit introduces outdoor air and adjusts the outdoor air temperature via fixed discharge temperature control, thereby reducing the air conditioning load.
  * The system can operate with outdoor-air temperatures ranging from -5 to 43°C. Heating performance is somewhat adversely affected when the outdoor-air temperature is 0°C or below.
  * When shipped from the factory, the thermostat is set at 18°C for cooling and 25°C for heating. The set temperature can be varied within the range of 13–25°C during cooling operation, and 18–30°C during heating operation, in the local setting mode using the wired remote controller. The temperature, however, is not displayed on the remote controller.
  * While in machine protection mode and depending on outdoor air conditions, discharge air temperature may not be at the set temperature.
  * The fan stops when operating in defrosting, oil returning and hot start operations. The fan also may stop due to mechanical protection control.
- Ceiling mounted duct units with three differing capacities are available. These can be connected to ***VRV*** series outdoor units to meet a variety of different requirements.

Airflow rate

FXMQ125MFV1	1,080 m³/h
FXMQ200MFV1	1,680 m³/h
FXMQ250MFV1	2,100 m³/h

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

Usage Limitations



Note:
1. The data shown in the graph illustrates the supported operation ranges under the following conditions.
   Indoor and Outdoor Unit
   Effective piping length: 7.5 m
   Height differential: 0 m
2. The discharge temperature can be set using the remote controller. However, the actual temperature may not match the temperature setting under some circumstances due to the outdoor-air processing load or mechanical protection controls.
3. The system will not operate in fan mode when the outdoor air temperature is 5°C or below.

- High-performance filters with dust collection efficiencies (JIS calorimetry) of 90% and 65% are also available as options.
- As with the ***VRV*** system, a variety of control systems can be deployed, including remote control from distances of up to 500 m.
  * Group control is not possible between this unit and standard type indoor units. Connect remote controllers to each unit.

BRC1E63
"Nav Ease"
(Wired remote controller)
(option)

- The "self-diagnosis function" indicates the occurrence and nature of abnormalities in the system by displaying codes on the remote controller.
- A central control system compatible with the ***VRV*** system can be installed.
  * It is not possible to change the discharge air temperature settings from the central control system.
  * Do not associate this equipment into zones with standard indoor units, as central control will not be possible.

DCS302CA61
Central remote controller
(option)

- As with the ***VRV*** system, the equipment employs the "super wiring system" so that the wiring linking indoor and outdoor units can also be utilised for central control.

Note:
* Linked control of the product and the Heat Reclaim Ventilator is not supported.
* This equipment is intended for the treatment of outdoor air only. It is not to be used for maintaining indoor air temperature. Install and use with standard indoor units. Be sure to position the air discharge openings of the product in positions where the airflow will not blow on people directly. When outdoor-air processing is in excess, the unit switches to thermo-off mode, and outdoor air flows into the room directly.
* For outdoor ducts, be sure to provide heat insulation to prevent condensation.
* Group control of the product and the standard indoor units is not supported. A separate remote controller should be connected to each individual unit.
* The system will not operate in fan mode when the outdoor air temperature is 5°C or below.
* If the product is allowed to operate 24 hours a day, maintenance (part replacement, etc.) must be performed periodically.
* Temperature setting and Power Proportional Distribution (PPD) are not possible even if the intelligent Touch Controller or the intelligent Touch Manager is installed.
* The remote controller wired to the outdoor-air processing unit must not be set as the master remote controller. Otherwise, when set to "Auto," the operation mode will switch according to the outdoor air conditions, regardless of the indoor temperature.

Standard Specifications

Indoor unit

Type				Ceiling Mounted Duct Type		
Model				FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1
Power supply				1-phase 220-240 V (also required for indoor units), 50 Hz		
Cooling capacity *1			Btu/h	47,800	76,400	95,500
			kW	14.0	22.4	28.0
Heating capacity *1			Btu/h	30,400	47,400	59,400
			kW	8.9	13.9	17.4
Power consumption			kW	0.359	0.548	0.638
Casing				Galvanised steel plate		
Dimensions (HxWxD)			mm	470X744X1,100	470X1,380X1,100	
Fan	Motor output		kW	0.380		
	Airflow rate		ℓ/s	300	466	583
			m^3/min	18	28	35
	External static pressure	240 V	Pa	225	275	255
Air filter				*2		
Refrigerant piping	Liquid		mm	ϕ 9.5 (flare)		
	Gas		mm	ϕ 15.9 (flare)	ϕ 19.1 (brazing)	ϕ 22.2 (brazing)
	Drain		mm	PS1B female thread		
Machine weight			kg	86	123	
Sound level *3		240 V	dB(A)	43	48	
Connectable outdoor units *4				6 class and above	8 class and above	10 class and above
Operation range (Fan mode operation between 15 and 19°C)			Cooling	19 to 43°C		
			Heating	-5 to 15°C		
Range of the discharge temperature *5			Cooling	13 to 25°C		
			Heating	18 to 30°C		

Note: *1. Specifications are based on the following conditions;
- Cooling: Outdoor temp. of 33°CDB, 28°CWB (68% RH), and discharge temp. of 18°CDB.
- Heating: Outdoor temp. of 0°CDB, -2.9°CWB (50% RH), and discharge temp. of 25°CDB.
- Equivalent reference piping length: 7.5 m (0 m horizontal)

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

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

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

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

Options

Indoor unit

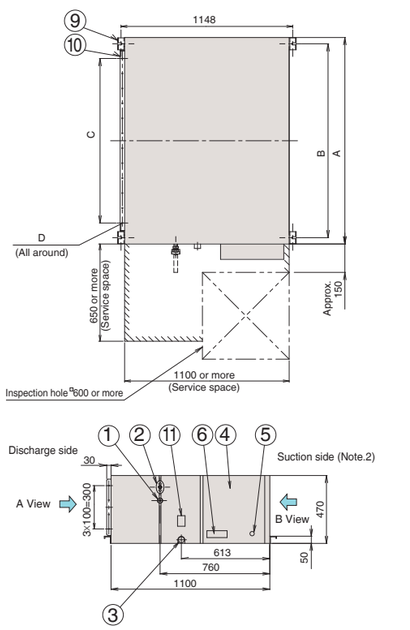
Model			FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1
Operation/control	Operation remote controller		BRC1E63 / BRC2E61		
	Central remote controller		DCS302CA61		
	Unified ON/OFF controller		DCS301BA61		
	Schedule timer		DST301BA61		
	Wiring adaptor for electrical appendices (1)		KRP2A61		
	Wiring adaptor for electrical appendices (2)		KRP4AA51		
Filters	Long-life replacement filter		KAFJ371L140	KAFJ371M280	
	High-efficiency filter	Colourimetric method 65%	KAFJ372L140	KAFJ372M280	
		Colourimetric method 90%	KAFJ373L140	KAFJ373M280	
	Filter chamber *1		KDJ3705L140	KDJ3705L280	
PM2.5 filtration unit *2			BAF429A20A		
PM2.5 with activated carbon filtration unit *2			BAF429A20AC		
Drain pump kit			KDU30L250VE		
Adaptor for wiring			KRP1B61		

Note : *1. Filter chamber has a suction-type flange. (Main unit does not.)
- Dimensions and weight of the equipment may vary depending on the options used.
- Some options may not be usable due to the equipment installation conditions, so please confirm prior to ordering.

*2. Refer to page 168-170 for details.
- Some options may not be used in combination.
- Operating sound may increase somewhat depending on the options used.

Dimensions

FXMQ125/200/250MFV1



*These diagrams are based on FXMQ200 and FXMQ250MFV1.

Local connection piping size

Model	Gas piping diameter	Liquid piping diameter
FXMQ125MFV1	ϕ15.9	ϕ9.5
FXMQ200MFV1	ϕ19.1 attached piping	ϕ9.5
FXMQ250MFV1	ϕ22.2 attached piping	ϕ9.5

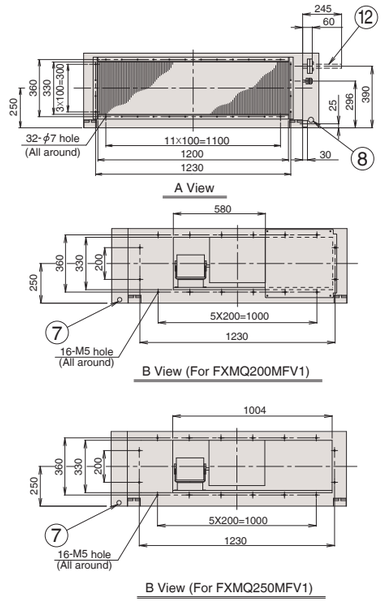
Table of dimensions

Model	A	B	C	D
FXMQ125MFV1	744	685	5X100=500	20-ϕ4.7 hole
FXMQ200MFV1	1380	1296	11X100=1100	32-ϕ4.7 hole
FXMQ250MFV1	1380	1296	11X100=1100	32-ϕ4.7 hole

Note:
1. The attached piping in the diagram is for FXMQ200MFV1 and FXMQ250MFV1 only. The gas piping connection port (② in the diagram) has a different bore form with FXMQ125MFV1.
2. An air filter is not supplied with this unit. Be sure to mount an air filter in the suction side. [Use a filter with dust collection efficiency of at least 50% (gravimetric method). This is available as an option.]
3. For outdoor ducts, be sure to provide heat insulation to prevent condensation.

① Liquid pipe connection
② Gas pipe connection
③ Drain piping connection
④ Electric parts box
⑤ Ground terminal
⑥ Name plate
⑦ Power supply wiring connection
⑧ Transmission wiring connection
⑨ Hanger bracket
⑩ Discharge companion flange
⑪ Water supply port
⑫ Attached piping (Note. 1)

FXMQ200/250MFV1



FXMQ125MFV1