

DAIKIN

PCV1217

Shaping air to your needs



VRV III
THE INTELLIGENT AIR CONDITIONING SYSTEM



Cooling Only 50 Hz
Heat Pump 50 Hz/60 Hz



A system with the high capacity needed to suit large-sized buildings

R-410A

VRV III – Created to respond to the needs

Daikin's constant efforts have been devoted towards using the latest and most revolutionary technologies in the development of the VRV III system for large-sized buildings. The system offers larger outdoor capacities, greater energy savings, easier installation, longer actual and total piping, and more.

1 Improved fans and grilles

A higher external static pressure has been achieved—from 58.8 Pa to 78.4 Pa—thanks to reduced internal pressure loss, use of self developed fans and grilles.

Aero spiral fan and aero asymmetrical fan

The area of the fan blades has been increased and optimised for each casing. This greatly reduces pressure loss, resulting in a higher external static pressure.

Aero asymmetrical fan

The three-bladed fan on the 10 HP unit, with a diameter of 700 mm, has been redesigned to include four blades and now has a diameter of 680 mm. Blade area has been increased by 25%.



Aero spiral fan (Powerful Dual DC fan)

In the 14 and 16 HP unit, a single fan with a diameter of 700 mm has been split into two fans with diameters of 540 mm each. Blade area has been increased by 20% to increase airflow.



Aero smooth grille

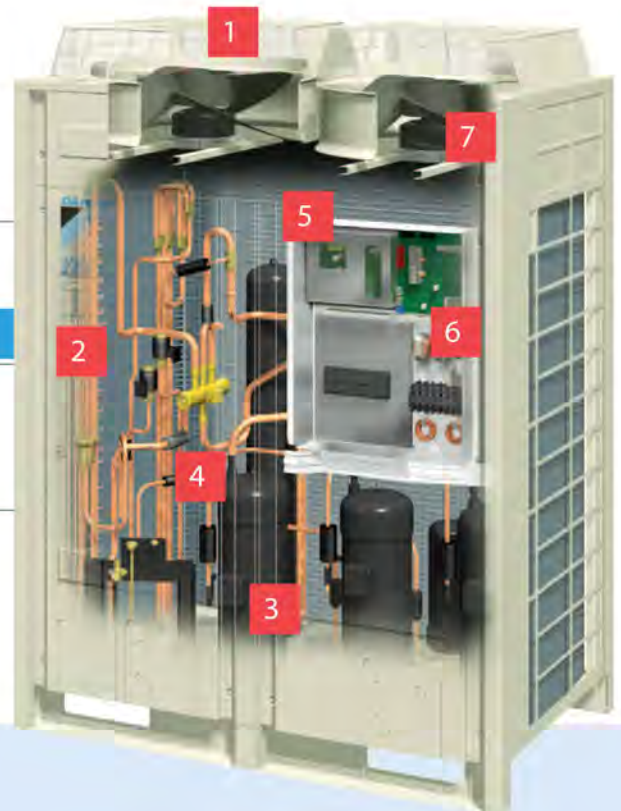
The three-dimensional, integrated, soft woven steel grilles are covered with a plastic coating that protects them from rotating elements and the possibility of fire damage.

Perspective view



2 Heat exchanger

This heat exchanger contributes to a high COP because of an increase from 7% to 10% of the effective length as well as an optimised e-Pass heat exchanger.



Major advances of the **VRV III** over the VRVII

The latest technology is implemented in the VRVIII system. Surpassing even the VRVII, the VRVIII responds to more of the needs of our customers that require air-conditioning solutions for large-sized buildings.

Large capacities for large-sized buildings

Outdoor units

- **Offering a higher capacity of up to 54 HP, responding to the needs of large-sized buildings**

The previous outdoor unit had a maximum output of 48 HP. The VRVIII has a top output of 54 HP! By connecting main units (up to 18 HP each), a high-capacity system (up to 54 HP) that is compact yet flexible can be achieved.



- **2 HP increments**

By providing a range of horse power levels in 2 HP increments*, Daikin responds flexibly to customer needs.

* Except for 5 HP

New

- **New 6 HP models (50 Hz only)**

New 6 HP models are added to the lineup of VRVIII outdoor units.



* Refer to page 26 for combination details.

for large-sized buildings



Large capacities for large-sized buildings

Indoor units

Daikin's indoor unit system offers a large number of connectable indoor units—64! Furthermore, our wide range of indoor units includes 15 types and 73 models* to meet the needs of customers.

Type	Model Name	Capacity Range	20	25	32	40	50	63	80	100	125	140	200	250
			0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	2.5 HP	3.2 HP	4 HP	5 HP	6 HP	8 HP	10 HP
			Capacity Index	20	25	31.25	40	50	62.5	80	100	125	140	200
Ceiling Mounted Cassette (Round Flow)	FXFQ-PVE			●	●	●	●	●	●	●	●			
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-MVE		●	●	●	●	●							
Ceiling Mounted Cassette (Double Flow)	FXCQ-MVE		●	●	●	●	●	●	●		●			
Ceiling Mounted Cassette Corner	FXKQ-MAVE			●	●	●		●						
Slim Ceiling Mounted Duct	FXDQ-PBVE (with drain pump)		●	●	●									
	FXDQ-PBVET (without drain pump) (700 mm width type)		●	●	●									
	FXDQ-NBVE (with drain pump)					●	●	●						
	FXDQ-NBVET (without drain pump) (900/1,100 mm width type)					●	●	●						
Ceiling Mounted Duct	FXMQ-PVE		●	●	●	●	●	●	●	●	●	●		
	FXMQ-MAVE												●	●
Ceiling Suspended	FXHQ-MAVE				●			●		●				
Wall Mounted	New FXAQ-PVE		New	New	New	New	New	New						
Floor Standing	FXLQ-MAVE		●	●	●	●	●	●						
Concealed Floor Standing	FXNQ-MAVE		●	●	●	●	●	●						

Note: R-410A VRV system indoor units are not compatible with the R-22 VRV system.
 • 14 types and 70 models for 60 Hz specifications.

Connection unit series indoor units (50 Hz only)

Type	Model Name	Capacity Range	20	25	32	40	50	71	100	125	
			0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	3 HP	4 HP	5 HP	
			Capacity Index	20	25	31.25	40	50	71	100	125
			Connection Unit							BEVQ71MAVE	BEVQ100MAVE
Ceiling Suspended Cassette	FXUQ-MAV1							●	●	●	

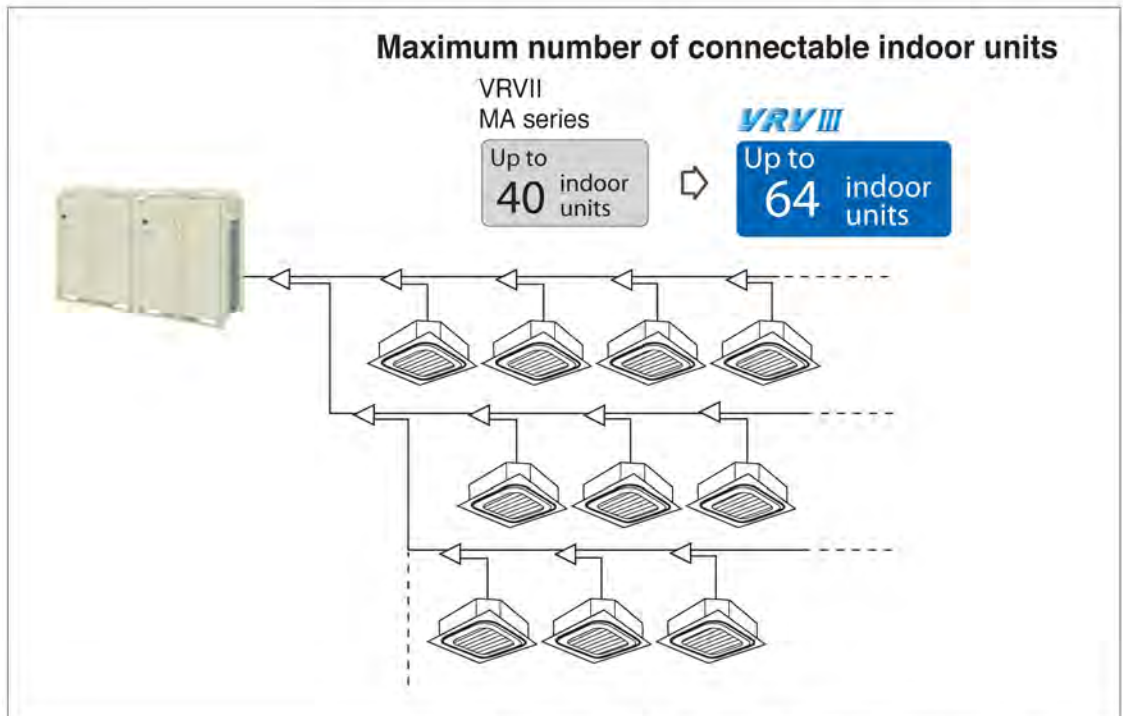
Note: BEV units are necessary for Connection unit series indoor units. Refer to the Engineering Data Book for details.

Large capacities for large-sized buildings

An increased number of connectable indoor units

The number of connectable indoor units has been drastically increased from 40 to 64!

Increased indoor unit connections



Refer to page 26 for the maximum number of connectable indoor units.

Connection ratio

Connection capacity at maximum is 200%.

Connection ratio
50%–200%*

*Connection ratio for RX(Y)Q6PA is 70 - 200%.

Connection ratio =

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

Conditions of indoor unit connection capacity

Applicable indoor units		Other indoor unit models*
Single outdoor units		200%
Double outdoor units	200%	160%
Triple outdoor units		130%

* For the FXFQ25 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.

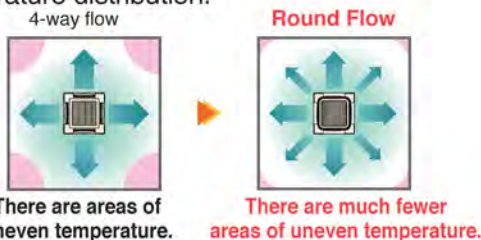
Ceiling Mounted Cassette (Round Flow) Type

FXFQ25P/FXFQ32P/FXFQ40P
 FXFQ50P/FXFQ63P/FXFQ80P
 FXFQ100P/FXFQ125P



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

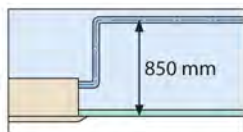
- The industry's first* Round Flow Ceiling Mounted Cassette type offers 360° airflow with improved temperature distribution.



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

- All models are lighter than the conventional ones. Ex: Models FXFQ25P-50P are 4.5 kg lighter (reduced from 24 kg to 19.5 kg).

- Drain pump is equipped as standard accessory, and the lift height has been improved from 750 mm to 850 mm.



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



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

- Low operation sound level (dB(A))

FXFQ-P	25/32	40	50	63	80	100	125
Sound level (HH/H/L)	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



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

- 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: 360° airflow is available, as well as 2- 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 member (option) must be used to close each unused outlet.

Wall Mounted Type

New

FXAQ20P/FXAQ25P
FXAQ32P/FXAQ40P
FXAQ50P/FXAQ63P



Stylish flat panel design harmonised with your interior décor

- Stylish flat panel design creates a graceful harmony that enhances any interior space.
- Flat panel can be cleaned with only the single pass of a cloth across their smooth surface. Flat panel can also be easily removed and washed for more thorough cleaning.

- Low operation sound level (dB(A))

FXAQ-P	20	25	32	40	50	63
Sound level (H/L)	35/31	36/31	38/31	39/34	42/37	47/41

- Drain pan and air filter can be kept clean by mould-proof polystyrene.
- Vertical auto-swing realises efficiency of air distribution. The louvre closes automatically when the unit stops.
- 5 steps of discharge angle can be set by remote controller.
- Discharge angle is automatically set at the same angle as the previous operation when restarting. (Initial setting: 10° for cooling and 70° for heating)
- 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.

