Warning

- Daikin Industries, Ltd.'s products are manufactured for export to numerous countries throughout the world. Daikin Industries, Ltd. does not have control over which products are exported to and used in a particular country. Prior to purchase, please therefore confirm with your local authorised importer, distributor and/or retailer whether this product conforms to the applicable standards, and is suitable for use, in the region where the product will be used. This statement does not purport to exclude, restrict or modify the application of any local legislation.
- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the User's Manual carefully before using this product. The User's Manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

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

Cautions on product corrosion

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

ISO 9001
JMI-0107

Organization:
DAIKIN INDUSTRIES, LTD.
AIR CONDITIONING MANUFACTURING DIVISION

Scope of Registration:
THE DESIGN/DEVELOPMENT AND MANUFACTURE OF COMMERCIAL AIR CONDITIONING, HEATING, COOLING, REFRIGERATING EQUIPMENT, COMMERCIAL HEATING EQUIPMENT, RESIDENTIAL AIR CONDITIONING EQUIPMENT, HEAT RECLAIM VENTILATION, AIR CLEANING EQUIPMENT, MARINE TYPE CONTAINER REFRIGERATION UNITS, COMPRESSORS AND VALVES.

ISO 9001
JQA-1452

Organization:
DAIKIN INDUSTRIES (THAILAND) LTD.

Scope of Registration:
THE DESIGN/DEVELOPMENT AND MANUFACTURE OF AIR CONDITIONERS AND THE COMPONENTS INCLUDING COMPRESSORS USED FOR THEM

ISO 14001
EC99J2044

All of the Daikin Group's business facilities and subsidiaries in Japan are certified under the ISO 14001 international standard for environment management.

Dealer

DAIKIN INDUSTRIES, LTD.

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PCV1213

DAIKIN

Shaping air to your needs

VRV III-Q

THE INTELLIGENT AIR CONDITIONING SYSTEM

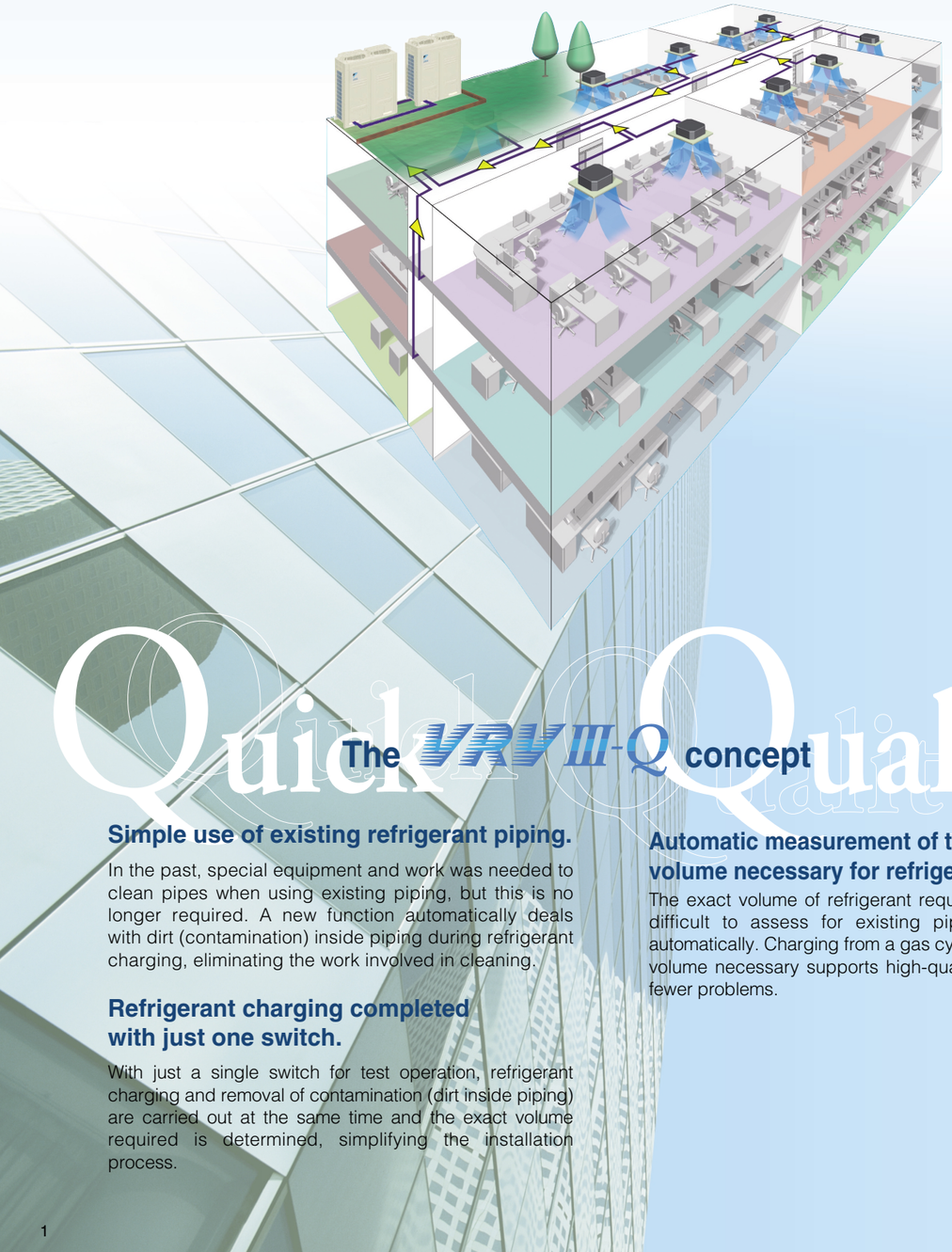
FOR REPLACEMENT USE

Cooling Only 50 Hz

R-410A

Quicker, easier installation of energy-saving air conditioning

VRV III-Q for replacement use can be installed using existing refrigerant piping thanks to its unique refrigerant control system with no special equipment or installation work required. This enables renovation of the air conditioning system to be carried out quickly and smoothly and minimises interference with operations and users in the building.



The VRV III-Q concept

Simple use of existing refrigerant piping.

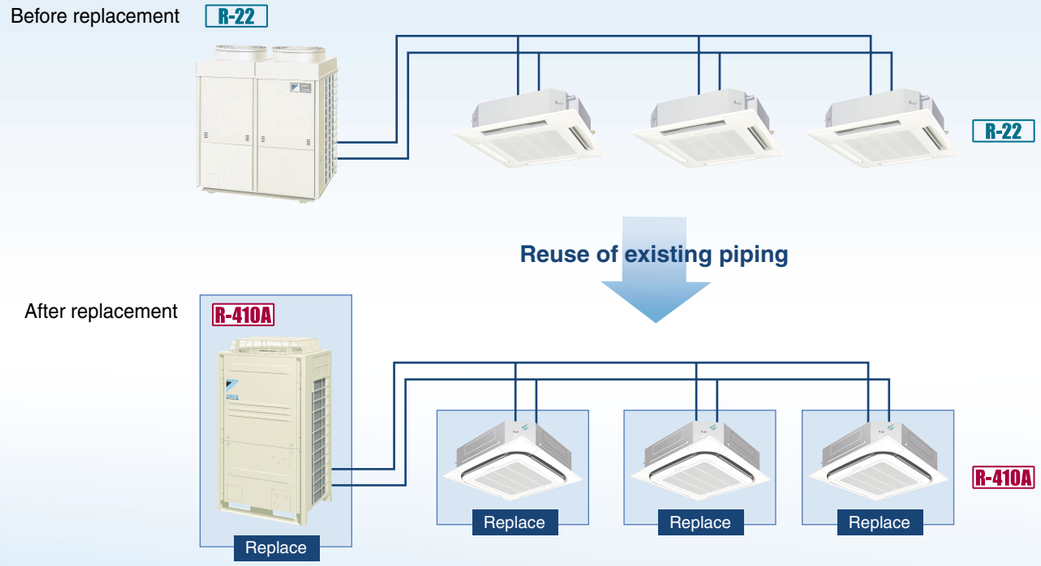
In the past, special equipment and work was needed to clean pipes when using existing piping, but this is no longer required. A new function automatically deals with dirt (contamination) inside piping during refrigerant charging, eliminating the work involved in cleaning.

Refrigerant charging completed with just one switch.

With just a single switch for test operation, refrigerant charging and removal of contamination (dirt inside piping) are carried out at the same time and the exact volume required is determined, simplifying the installation process.

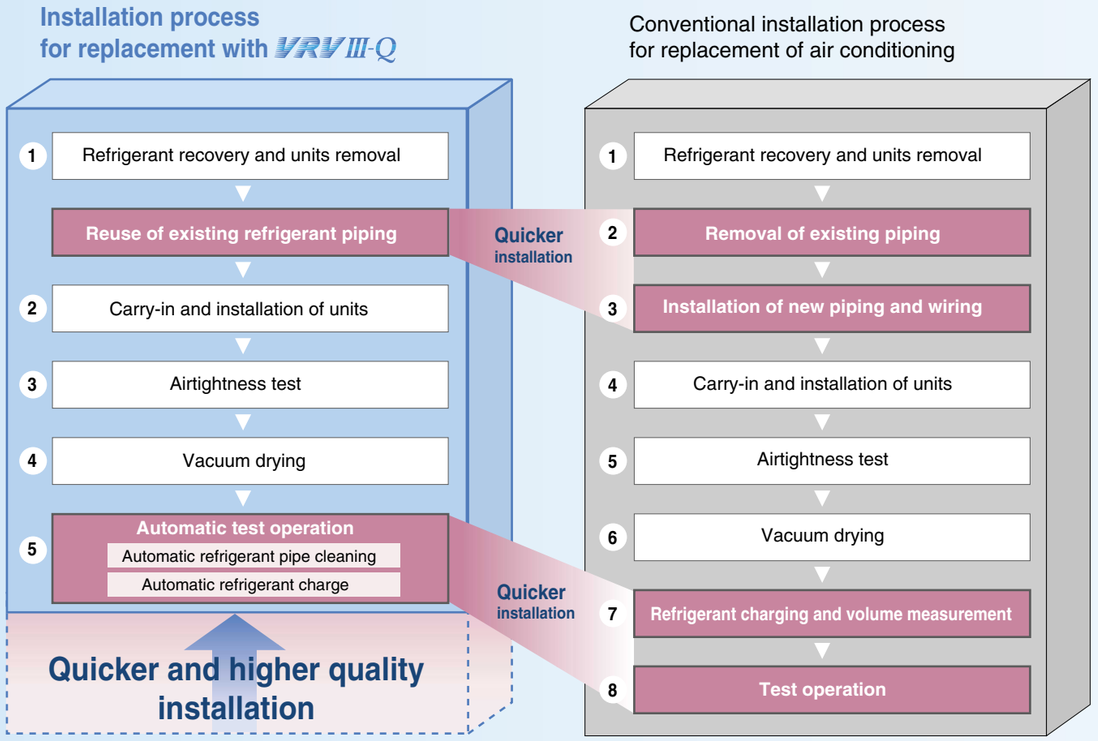
Automatic measurement of the exact volume necessary for refrigerant charging.

The exact volume of refrigerant required, which can be difficult to assess for existing piping, is measured automatically. Charging from a gas cylinder with the exact volume necessary supports high-quality installation with fewer problems.



* It is possible to keep R-22 indoor units from K-series and later version. It is not possible to combine old R-22 and new R-410A indoor units in one system due to incompatibility of communication.

Enables smooth replacement of air conditioning with less effect on operations and users in the building.



* For reuse of existing refrigerant piping, it is possible to use piping or branched piping capable of handling 3.3 MPa or more. Heat insulation is necessary for liquid piping and gas piping.

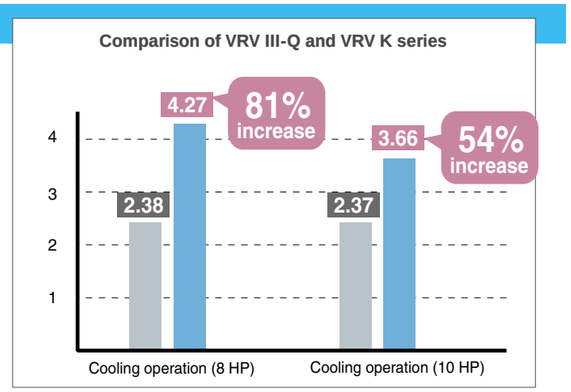
Benefits of system replacement

High COP

Saves energy with high COP

We have reached a higher level of efficiency, thanks to advanced features such as the heat exchanger, the grille and the dual DC fans.

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



Design flexibility

Significantly more compact outdoor unit enables the effective use of limited space!

Compact design enables the effective use of space taken up by existing machinery

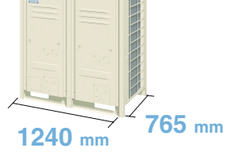
Conventional
VRV K PLUS series: RX16K
(model from 16 years previous)
16 HP outdoor unit

Installation space
2.25 m²

VRV III-Q : RQQ16P
16 HP outdoor unit

Installation space
0.95 m²

58% less space



High external static pressure 78.4 Pa

Conventional VRV K series
(model from 16 years previous)

49.0 Pa → VRV III-Q 78.4 Pa

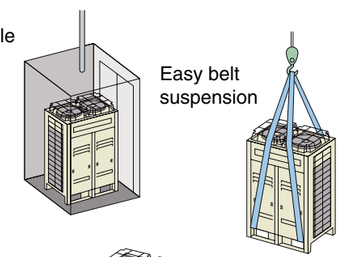
External static pressure
78.4 Pa
Easier discharge hood connection (field setting)

Easy installation on each floor for use in tall buildings

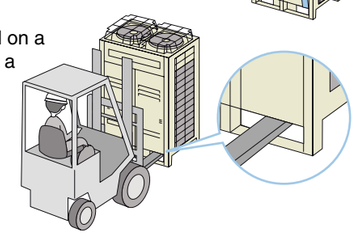
Small and light, significantly reducing constraints during carry-in

Carry-in possible using ordinary elevators

Easy belt suspension



Can be carried on a fork-lift without a pallet



System flexibility

An increased number of connectable indoor units in a single system

More indoor units can be connected in a single system, enabling consolidation of existing piping!

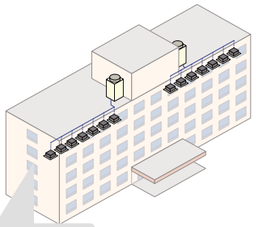
The number of connectable indoor units has been drastically increased from 30 to 64.

Conventional
VRV K PLUS series: RX24–30K
(model from 16 years previous)

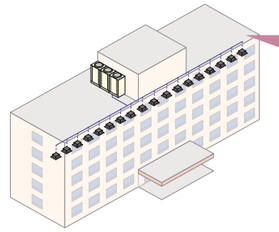
Up to 30 indoor units connectable

→ VRV III-Q : RQQ40–48P

Up to 64 indoor units connectable



Where several systems used to be required ...



Condensed into a single system

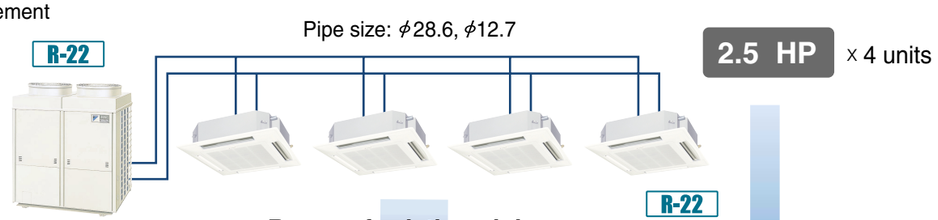
Simple to deploy even in long, wide buildings with many small rooms

Enables increased capacity

System can be upgraded using existing piping

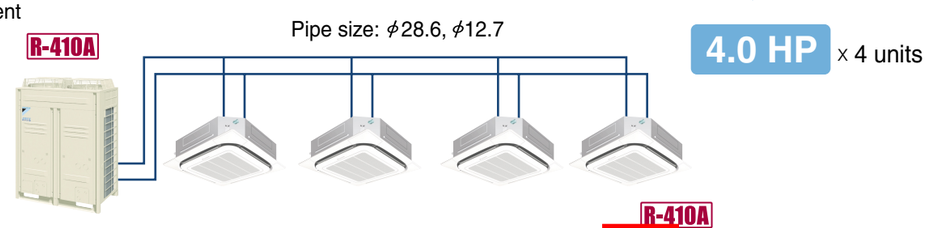
VRV III-Q for replacement use enables the system capacity to be increased without changing the refrigerant piping. For example, it is possible to install a 16 HP VRV III-Q using the refrigerant piping of an 10 HP R-22 system.

Before replacement
10 HP



Reuse of existing piping

After replacement
VRV III-Q
16 HP



* For reuse of existing refrigerant piping, it is possible to use piping or branched piping capable of handling 3.3 MPa or more. Heat insulation is necessary for liquid piping and gas piping.

Lineup

System lineup for replacement use

Outdoor units

8, 10,12 HP

RQQ8PY1
RQQ10PY1
RQQ12PY1

14, 16 HP

RQQ14PY1
RQQ16PY1

18, 20, 22, 24 HP

RQQ18PY1 RQQ22PY1
RQQ20PY1 RQQ24PY1

26, 28 HP

RQQ26PY1
RQQ28PY1

30, 32 HP

RQQ30PY1
RQQ32PY1

34, 36, 38, 40 HP

RQQ34PY1 RQQ38PY1
RQQ36PY1 RQQ40PY1

42, 44 HP

RQQ42PY1
RQQ44PY1

46, 48 HP

RQQ46PY1
RQQ48PY1

Outdoor unit combinations

HP	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units*2 *3 Combination (%) 50%	100%	130%	Maximum number of connectable indoor units
8 HP	200	RQQ8PY1	RQQ8PY1	–	100	200	260	13
10 HP	250	RQQ10PY1	RQQ10PY1	–	125	250	325	16
12 HP	300	RQQ12PY1	RQQ12PY1	–	150	300	390	19
14 HP	350	RQQ14PY1	RQQ14PY1	–	175	350	455	22
16 HP	400	RQQ16PY1	RQQ16PY1	–	200	400	520	26
18 HP	450	RQQ18PY1	RQQ8PY1 + RQQ10PY1	BHFP22P100	225	450	585	29
20 HP	500	RQQ20PY1	RQQ8PY1 + RQQ12PY1		250	500	650	32
22 HP	550	RQQ22PY1	RQQ10PY1 + RQQ12PY1		275	550	715	35
24 HP	600	RQQ24PY1	RQQ12PY1 + RQQ12PY1		300	600	780	39
26 HP	650	RQQ26PY1	RQQ10PY1 + RQQ16PY1		325	650	845	42
28 HP	700	RQQ28PY1	RQQ12PY1 + RQQ16PY1		350	700	910	45
30 HP	750	RQQ30PY1	RQQ14PY1 + RQQ16PY1		375	750	975	48
32 HP	800	RQQ32PY1	RQQ16PY1 + RQQ16PY1		400	800	1,040	52
34 HP	850	RQQ34PY1	RQQ10PY1 + RQQ10PY1 + RQQ14PY1	BHFP22P151	425	850	1,105	55
36 HP	900	RQQ36PY1	RQQ10PY1 + RQQ10PY1 + RQQ16PY1		450	900	1,170	58
38 HP	950	RQQ38PY1	RQQ10PY1 + RQQ12PY1 + RQQ16PY1		475	950	1,235	61
40 HP	1,000	RQQ40PY1	RQQ12PY1 + RQQ12PY1 + RQQ16PY1		500	1,000	1,300	64
42 HP	1,050	RQQ42PY1	RQQ10PY1 + RQQ16PY1 + RQQ16PY1		525	1,050	1,365	
44 HP	1,100	RQQ44PY1	RQQ12PY1 + RQQ16PY1 + RQQ16PY1		550	1,100	1,430	
46 HP	1,150	RQQ46PY1	RQQ14PY1 + RQQ16PY1 + RQQ16PY1		575	1,150	1,495	
48 HP	1,200	RQQ48PY1	RQQ16PY1 + RQQ16PY1 + RQQ16PY1		600	1,200	1,560	

*1 For multiple connections of 18 HP systems and above, the outdoor unit multi connection piping kit (separately sold) is required.
*2 Total capacity index of connectable indoor units must be 50%–130% of the capacity index of the outdoor units.
*3 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. And the connection ratio must not exceed 100%.

System lineup for replacement use

Indoor units

Ceiling Mounted Cassette (Round Flow)

FXFQ25/32/40/50/63/80/100/125PVE

Ceiling Mounted Cassette (Compact Multi Flow)

FXZQ20/25/32/40/50MVE

Ceiling Mounted Cassette (Double Flow)

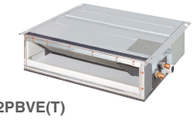
FXCQ20/25/32/40/50/63/80/125MVE

Ceiling Mounted Cassette Corner

FXKQ25/32/40/63MAVE

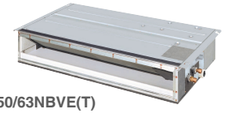
Slim Ceiling Mounted Duct

700 mm width type
–with drain pump
–without drain pump



FXDQ20/25/32PBVE(T)

900/1,100 mm width type
–with drain pump
–without drain pump



FXDQ40/50/63NBVE(T)

Ceiling Mounted Duct

FXMQ20/25/32/40/50/
63/80/100/125/140PVE

FXMQ200/250MAVE

Ceiling Suspended

FXHQ32/63/100MAVE

Wall Mounted

FXAQ20/25/32/40/50/63PVE

Floor Standing

FXLQ20/25/32/40/50/63MAVE

Concealed Floor Standing

FXNQ20/25/32/40/50/63MAVE

Connection unit series

Ceiling Suspended Cassette

FXUQ71/100/125MAV1

Connection unit
BEVQ71/100/125/MAVE

Air treatment equipment

Outdoor-Air Processing Unit

FXMQ125/200/250MFV1

Heat Reclaim Ventilator with DX-Coil and Humidifier

VKM50/80/100GA(M)V1

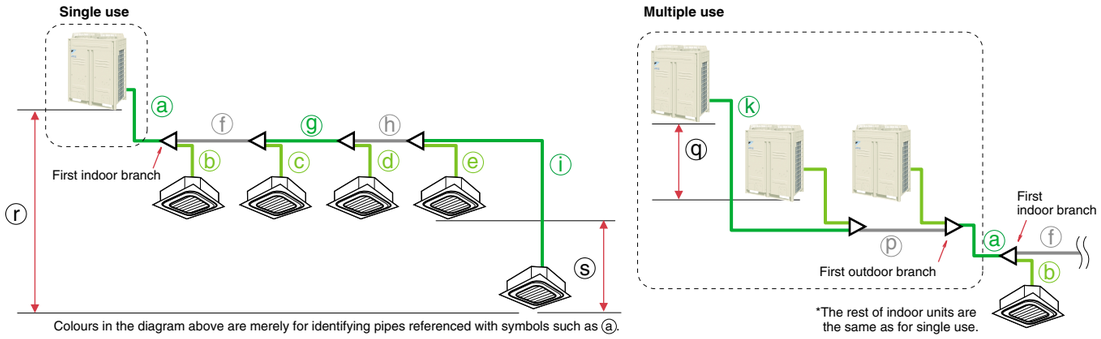
Heat Reclaim Ventilator

VAM150/250/350/500/650/
800/1000/1500/2000GJVE

* It is possible to keep R-22 indoor units from K-series and later version. It is not possible to combine old R-22 and new R-410A indoor units in one system due to incompatibility of communication.

Guidelines for reuse of existing refrigerant piping

Piping limits for reuse of existing piping



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

		Actual piping length	Example	Equivalent piping length
Maximum allowable piping length	Refrigerant piping length	**150** m	a+f+g+h+i	**175** m
	Total piping length	**300** m	a+b+c+d+e+f+g+h+i	—
	Between the first indoor branch and the farthest indoor unit	**40** m	f+g+h+i	—
	Between the outdoor branch and the last outdoor unit	**10** m	k+p	**13** m

			Level Difference	Example
Maximum allowable level difference	Between the outdoor units (Multiple use)		**5** m	q
	Between the indoor units		**15** m	s
	Between the outdoor units and the indoor units	If the outdoor unit is above.	**50** m	r
		If the outdoor unit is below.	**40** m	r

Reusability of existing piping for VRVIII-Q

Type of piping	Capacity	Piping size														
		Liquid						Gas								
		ϕ6.4	ϕ9.5	ϕ12.7	ϕ15.9	ϕ19.1	ϕ22.2	ϕ12.7	ϕ15.9	ϕ19.1	ϕ22.2	ϕ25.4	ϕ28.6	ϕ34.9	ϕ41.3	ϕ54.1
Main piping	8 HP	×	S○	●		×	×	×	×	S○		●	●	×	×	×
	10 HP	×	S○	●		×	×	×	×	×	S○		●	×	×	×
	12 HP	×	×	S○	●	×	×	×	×	×	×	×	S○	× ●	×	×
	14 HP	×	×	S○	●	×	×	×	×	×	×	×	S○	●	×	×
	16 HP	×	×	S○	●	×	×	×	×	×	×	×	S○	●	×	×
	18 HP	×	×	×	S○	●	×	×	×	×	×	×	S○	●	×	×
	20 HP	×	×	×	S○	●	×	×	×	×	×	×	S○	●	×	×
	22 HP	×	×	×	S○	●	×	×	×	×	×	×	S○	●	×	×
	24 HP	×	×	×	S○	●	×	×	×	×	×	×	×	S○	●	×
	26 HP	×	×	×	×	S○	●	×	×	×	×	×	×	S○	●	×
	28 HP	×	×	×	×	S○	●	×	×	×	×	×	×	S○	●	×
	30 HP	×	×	×	×	S○	●	×	×	×	×	×	×	S○	●	×
	32 HP	×	×	×	×	S○	●	×	×	×	×	×	×	S○	●	×
	34 HP	×	×	×	×	S○	●	×	×	×	×	×	×	S○	●	×
	36 HP	×	×	×	×	S○	●	×	×	×	×	×	×	×	S○	●
	38 HP	×	×	×	×	S○	●	×	×	×	×	×	×	×	S○	●
	40 HP	×	×	×	×	S○	●	×	×	×	×	×	×	×	S○	●
	42 HP	×	×	×	×	S○	●	×	×	×	×	×	×	×	S○	●
	44 HP	×	×	×	×	S○	●	×	×	×	×	×	×	×	S○	●
	46 HP	×	×	×	×	S○	●	×	×	×	×	×	×	×	S○	●
	48 HP	×	×	×	×	S○	●	×	×	×	×	×	×	×	S○	●
From REFNET to REFNET *1	< 100	×	S○●		×	×	×	×	S○●		×	×	×	×	×	×
	100 ≤ X < 150	×	S○●		×	×	×	×	S○	●	×	×	×	×	×	×
	150 ≤ X < 160	×	S○●		×	×	×	×	×	S○●			×	×	×	×
	160 ≤ X < 200	×	S○	●	×	×	×	×	×	S○		●	×	×	×	×
	200 ≤ X < 290	×	S○	●		×	×	×	×	×	S○	●		×	×	×
	290 ≤ X < 330	×	×	S○●		×	×	×	×	×	×	●	S○		×	×
	330 ≤ X < 420	×	×	S○	●	×	×	×	×	×	×	×	S○	●	×	×
	420 ≤ X < 480	×	×	S	○●		×	×	×	×	×	×	S○	●	×	×
	480 ≤ X < 640	×	×	S	○	●	×	×	×	×	×	×	S○	●	×	×
	640 ≤ X < 900	×	×	×	S	○●		×	×	×	×	×	×	S○	●	
	900 ≤ X < 920	×	×	×	S	○	●	×	×	×	×	×	×	S○		●
	920 ≤	×	×	×	×	S○	●	×	×	×	×	×	×	×	S○	●
From REFNET to indoor unit *2	20–40 class	S○●		×	×	×	×	S●		×	×	×	×	×	×	×
	50 class	S○	●	×	×	×	×	S○	●	×	×	×	×	×	×	×
	63 class	×	S○●		×	×	×	○	S●	×	×	×	×	×	×	×
	80 class	×	S○●		×	×	×	×	S○●		×	×	×	×	×	×
	100–125 class	×	S○●		×	×	×	×	S○	●			×	×	×	×
	140 class	×	S○		×	×	×	×	S○				×	×	×	×
	200 class	×	S○	●	×	×	×	×	×	S○		●		×	×	×
	250 class	×	S○	●	×	×	×	×	×	×	S○		●	×	×	×

● : Piping size of conventional R-22 model
○ : Piping size of conventional R-410A model
S : Standard piping size of VRVIII-Q
: Possible
: Standard piping size of VRV III-Q. However, when equivalent piping length between outdoor unit and indoor unit is 90 m or more, size of main piping must be increased.
× : Not possible

*1 Piping between REFNETs depends on total capacity index of indoor units connected below each REFNET. It cannot exceed piping size of upstream side.
*2 Piping from REFNET to indoor unit depends on the capacity of the connected indoor unit. It cannot exceed piping size of upstream side.

Specifications

Outdoor units

Cooling Only

MODEL			RQQ8PY1	RQQ10PY1	RQQ12PY1	RQQ14PY1	RQQ16PY1
Power supply			3-phase 4-wire system, 380–415 V, 50 Hz				
Cooling capacity (*1)(*2)		kcal/h (*1)	19,400	24,300	29,000	34,600	39,000
		Btu/h (*1)	76,800	96,200	115,000	137,000	155,000
	kW	(*1)	22.5	28.2	33.7	40.2	45.3
		(*2)	22.4	28.0	33.5	40.0	45.0
Power consumption (*2)		kW	5.24	7.64	10.1	11.6	13.6
Capacity control		%	20-100	14-100	14-100	10-100	10-100
Casing colour			Ivory white (5Y7.5/1)				
Compressor	Type		Hermetically sealed scroll type				
	Motor output	kW	3.6×1	(1.4+4.5)×1	(2.3+4.5)×1	(1.4+4.5+4.5)×1	(2.7+4.5+4.5)×1
Airflow rate		m³/min	180	185	200	233	233
Dimensions (H×W×D)		mm	1,680×930×765			1,680×1,240×765	
Machine weight		kg	218	269	269	355	355
Sound level		dB(A)	57	58	60	60	60
Operation range		°CDB	–5 to 43				
Refrigerant	Type		R-410A				
	Charge	kg	10.8	11.7	11.7	11.7	11.7
Piping connections	Liquid	mm	ϕ 9.5 (Brazing)	ϕ 9.5 (Brazing)	ϕ12.7 (Brazing)	ϕ12.7 (Brazing)	ϕ12.7 (Brazing)
	Gas		ϕ19.1 (Brazing)	ϕ 22.2 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)

MODEL			RQQ18PY1	RQQ20PY1	RQQ22PY1	RQQ24PY1	RQQ26PY1	RQQ28PY1	RQQ30PY1	RQQ32PY1
	Combination units		RQQ8PY1 RQQ10PY1	RQQ8PY1 RQQ12PY1	RQQ10PY1 RQQ12PY1	RQQ12PY1 RQQ12PY1	RQQ10PY1 RQQ16PY1	RQQ12PY1 RQQ16PY1	RQQ14PY1 RQQ16PY1	RQQ16PY1 RQQ16PY1
Power supply			3-phase 4-wire system, 380–415 V, 50 Hz							
Cooling capacity (*1)(*2)		kcal/h (*1)	43,600	48,300	53,200	58,000	63,300	67,900	73,500	78,000
		Btu/h (*1)	173,000	192,000	211,000	230,000	251,000	270,000	292,000	310,000
	kW	(*1)	50.7	56.2	61.9	67.4	73.5	79.0	85.5	90.6
		(*2)	50.4	55.9	61.5	67.0	73.0	78.5	85.0	90.0
Power consumption (*2)		kW	12.9	15.4	17.8	20.2	21.3	23.7	25.2	27.2
Capacity control		%	9-100	8-100	7-100	6-100	6-100	5-100	5-100	5-100
Casing colour			Ivory white (5Y7.5/1)							
Compressor	Type		Hermetically sealed scroll type							
	Motor output	kW	(3.6×1)+ ((1.4+4.5)×1)	(3.6×1)+ ((2.3+4.5)×1)	((1.4+4.5)×1)+ ((2.3+4.5)×1)	((2.3+4.5)×1)+ ((2.3+4.5)×1)	((1.4+4.5)×1)+ ((2.7+4.5+4.5)×1)	((2.3+4.5)×1)+ ((2.7+4.5+4.5)×1)	((1.4+4.5+4.5)×1)+ ((2.7+4.5+4.5)×1)	((2.7+4.5+4.5)×1)+ ((2.7+4.5+4.5)×1)
Airflow rate		m³/min	180+185	180+200	185+200	200+200	185+233	200+233	233+233	233+233
Dimensions (H×W×D)		mm	(1,680×930×765)+(1,680×930×765)				(1,680×930×765)+(1,680×1,240×765)		(1,680×1,240×765)+(1,680×1,240×765)	
Machine weight		kg	218+269	218+269	269+269	269+269	269+355	269+355	355+355	355+355
Sound level		dB(A)	61	62	63	63	63	63	63	63
Operation range		°CDB	–5 to 43							
Refrigerant	Type		R-410A							
	Charge	kg	10.8+11.7	10.8+11.7	11.7+11.7	11.7+11.7	11.7+11.7	11.7+11.7	11.7+11.7	11.7+11.7
Piping connections	Liquid	mm	ϕ15.9 (Brazing)	ϕ15.9 (Brazing)	ϕ15.9 (Brazing)	ϕ15.9 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)
	Gas		ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ 34.9 (Brazing)	ϕ34.9 (Brazing)

Note: Specifications are based on the following conditions;
•Cooling:(*1) Indoor temp.: 27°CDB, 19.5°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
(*2) Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
•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.

Specifications

Outdoor units

Cooling Only

MODEL	Combination units		RQQ34PY1	RQQ36PY1	RQQ38PY1	RQQ40PY1	RQQ42PY1	RQQ44PY1	RQQ46PY1	RQQ48PY1
			RQQ10PY1 RQQ10PY1 RQQ14PY1	RQQ10PY1 RQQ10PY1 RQQ16PY1	RQQ10PY1 RQQ12PY1 RQQ16PY1	RQQ12PY1 RQQ12PY1 RQQ16PY1	RQQ10PY1 RQQ16PY1 RQQ16PY1	RQQ12PY1 RQQ16PY1 RQQ16PY1	RQQ14PY1 RQQ16PY1 RQQ16PY1	RQQ16PY1 RQQ16PY1 RQQ16PY1
Power supply			3-phase 4-wire system, 380–415 V, 50 Hz							
Cooling capacity (*1)(*2)		kcal/h (*1)	83,200	87,700	92,900	97,200	102,000	108,000	113,000	117,000
		Btu/h (*1)	329,000	348,000	368,000	386,000	406,000	427,000	447,000	464,000
		kW (*1)	96.6	102	108	113	119	125	131	136
		kW (*2)	96.0	101	107	112	118	124	130	135
Power consumption (*2)		kW	26.9	28.9	31.4	33.8	34.9	35.3	38.8	40.8
Capacity control		%	5-100	4-100	4-100	4-100	4-100	4-100	3-100	3-100
Casing colour			Ivory white (5Y7.5/1)							
Compressor	Type		Hermetically sealed scroll type							
	Motor output	kW	((1.4+4.5)×1)+ ((1.4+4.5)×1)+ ((1.4+4.5+4.5)×1)	((1.4+4.5)×1)+ ((1.4+4.5)×1)+ ((2.7+4.5+4.5)×1)	((1.4+4.5)×1)+ ((2.3+4.5)×1)+ ((2.7+4.5+4.5)×1)	((2.3+4.5)×1)+ ((2.3+4.5)×1)+ ((2.7+4.5+4.5)×1)	((1.4+4.5)×1)+ ((2.7+4.5+4.5)×1)+ ((2.7+4.5+4.5)×1)	((2.3+4.5)×1)+ ((2.7+4.5+4.5)×1)+ ((2.7+4.5+4.5)×1)	((1.4+4.5+4.5)×1)+ ((2.7+4.5+4.5)×1)+ ((2.7+4.5+4.5)×1)	((2.7+4.5+4.5)×1)+ ((2.7+4.5+4.5)×1)+ ((2.7+4.5+4.5)×1)
Airflow rate		m³/min	185+185+233	185+185+233	185+200+233	200+200+233	185+233+233	200+233+233	233+233+233	233+233+233
Dimensions (H×W×D)		mm	(1,680×930×765)+(1,680×930×765)+(1,680×1,240×765)				(1,680×930×765)+(1,680×1,240×765) +(1,680×1,240×765)		(1,680×1,240×765)+(1,680×1,240×765) +(1,680×1,240×765)	
Machine weight		kg	269+269+355	269+269+355	269+269+355	269+269+355	269+355+355	269+355+355	355+355+355	355+355+355
Sound level		dB(A)	64	64	65	65	65	65	65	65
Operation range		°CDB	–5 to 43							
Refrigerant	Type		R-410A							
	Charge	kg	11.7+11.7+11.7	11.7+11.7+11.7	11.7+11.7+11.7	11.7+11.7+11.7	11.7+11.7+11.7	11.7+11.7+11.7	11.7+11.7+11.7	11.7+11.7+11.7
Piping connections	Liquid	mm	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)
	Gas		ϕ34.9 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)

Note: Specifications are based on the following conditions;
- Cooling:(*1) Indoor temp.: 27°CDB, 19.5°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
  (*2) Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- 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.

Option List

Outdoor units

No.	Item \ Type		RQQ8PY1 RQQ10PY1 RQQ12PY1	RQQ14PY1 RQQ16PY1	RQQ18PY1 RQQ20PY1 RQQ22PY1
1	Distributive piping	REFNET header	KHRP26M22H (Max. 4 branch) KHRP26M33H (Max. 8 branch)	KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch) KHRP26M72H (Max. 8 branch)	
		REFNET joint	KHRP26A22T, KHRP26A33T	KHRP26A22T, KHRP26A33T, KHRP26A72T	
2	Outdoor unit multi connection piping kit		—	—	BHFP22P100
3	Central drain pan kit		KWC26C280	KWC26C450	KWC26C280×2
4	Digital pressure gauge kit		BHGP26A1		BHGP26A1×2

No.	Item \ Type		RQQ24PY1	RQQ26PY1 RQQ28PY1	RQQ30PY1 RQQ32PY1	RQQ34PY1 RQQ36PY1 RQQ38PY1 RQQ40PY1	RQQ42PY1 RQQ44PY1	RQQ46PY1 RQQ48PY1
1	Distributive piping	REFNET header	KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch) KHRP26M72H (Max. 8 branch), KHRP26M73H (Max. 8 branch)					
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T					
2	Pipe size reducer		KHRP26M73TP, KHRP26M73HP					
3	Outdoor unit multi connection piping kit		BHFP22P100			BHFP22P151		
4	Central drain pan kit		KWC26C280×2	KWC26C280 KWC26C450	KWC26C450×2	KWC26C280×2 KWC26C450	KWC26C280 KWC26C450×2	KWC26C450×3
5	Digital pressure gauge kit		BHGP26A1×2			BHGP26A1×3		

Control Systems

Building Management System

No.	Item				Model No.	Function
1	intelligent Touch Controller	Basic	Hardware	intelligent Touch Controller	DCS601C51	•Air-Conditioning management system that can be controlled by a compact all-in-one unit.
1-1		Option	Hardware	DIII-NET plus adaptor	DCS601A52	•Additional 64 groups (10 outdoor units) is possible.
1-2	Electrical box with earth terminal (4 blocks)				KJB411A	•Wall embedded switch box.
2	intelligent Touch Manager	Basic	Hardware	intelligent Touch Manager	DCM601A51	•Air-conditioning management system that can be controlled by touch screen.
2-1		Option	Hardware	iTM plus adaptor	DCM601A52	•Additional 64 groups (10 outdoor units) is possible. Max. 7 iTM plus adaptors can be connected to intelligent Touch Manager.
2-2				iTM integrator	DCM601A53	•Max. 5 intelligent Touch Managers can be integrated.
2-3			Software	iTM power proportional distribution	DCM002A51	•Power consumption of indoor units are calculated based on operation status of the indoor unit and outdoor unit power consumption measured by kWh metre.
2-4				iTM energy navigator	DCM008A51	•Building energy consumption is visualised. Wasted air-conditioning energy can be found out.
2-5	Di unit				DEC101A51	•8 pairs based on a pair of On/Off input and abnormality input.
2-6	Dio unit				DEC102A51	•4 pairs based on a pair of On/Off input and abnormality input.
3	Communication line	*1 Interface for use in BACnet®			DMS502B51	•Interface unit to allow communications between VRV and BMS. Operation and monitoring of air-conditioning systems through BACnet® communication.
3-1		Optional DIII board			DAM411B51	•Expansion kit, installed on DMS502B51, to provide 2 more DIII-NET communication ports. Not usable independently.
3-2		Optional Di board			DAM412B51	•Expansion kit, installed on DMS502B51, to provide 16 more wattmeter pulse input points. Not usable independently.
4		*2 Interface for use in LonWorks®			DMS504B51	•Interface unit to allow communications between VRV and BMS. Operation and monitoring of air-conditioning systems through LonWorks® communication.
5	Contact/analogue signal	Unification adaptor for computerised control			★ DCS302A52	•Interface between the central monitoring board and central control units.

Notes: *1. BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).
*2. LonWorks® is a trademark of Echelon Corporation registered in the United States and other countries.
*3. Installation box for ★ adaptor must be obtained locally.

Air Conditioning Network Service System (Optional Maintenance Service) is also available.