DAIKIN

PCV1030

Shaping air to your needs

VRV® III-Q

THE INTELLIGENT AIR CONDITIONING SYSTEM

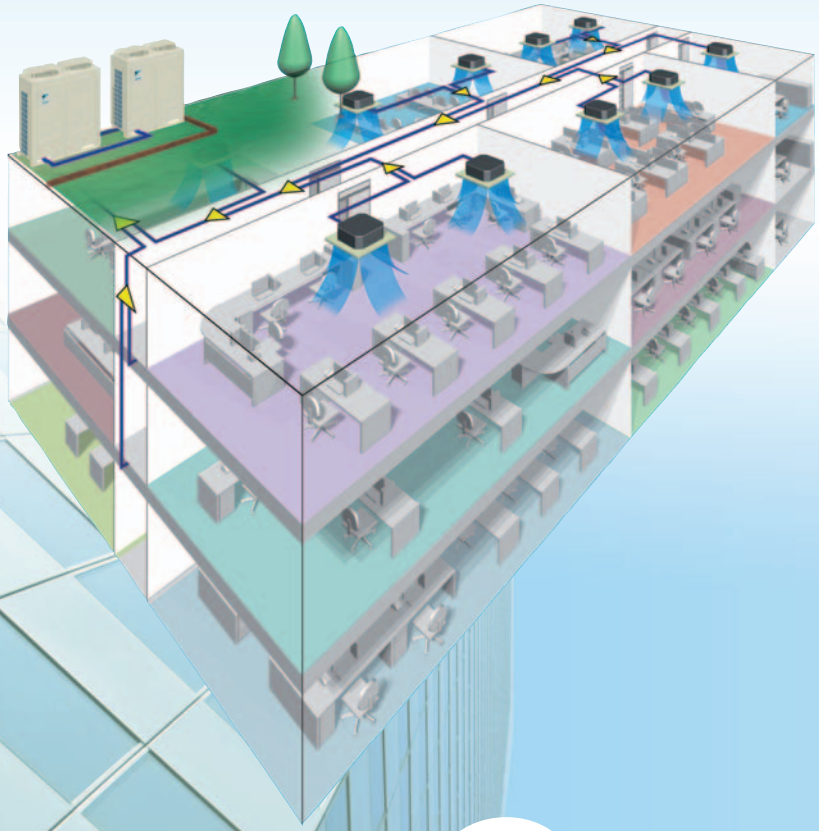
FOR REPLACEMENT USE

Heat Pump 50 Hz

R-410A

Quicker, easier installation of

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.



Quick Quality

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.

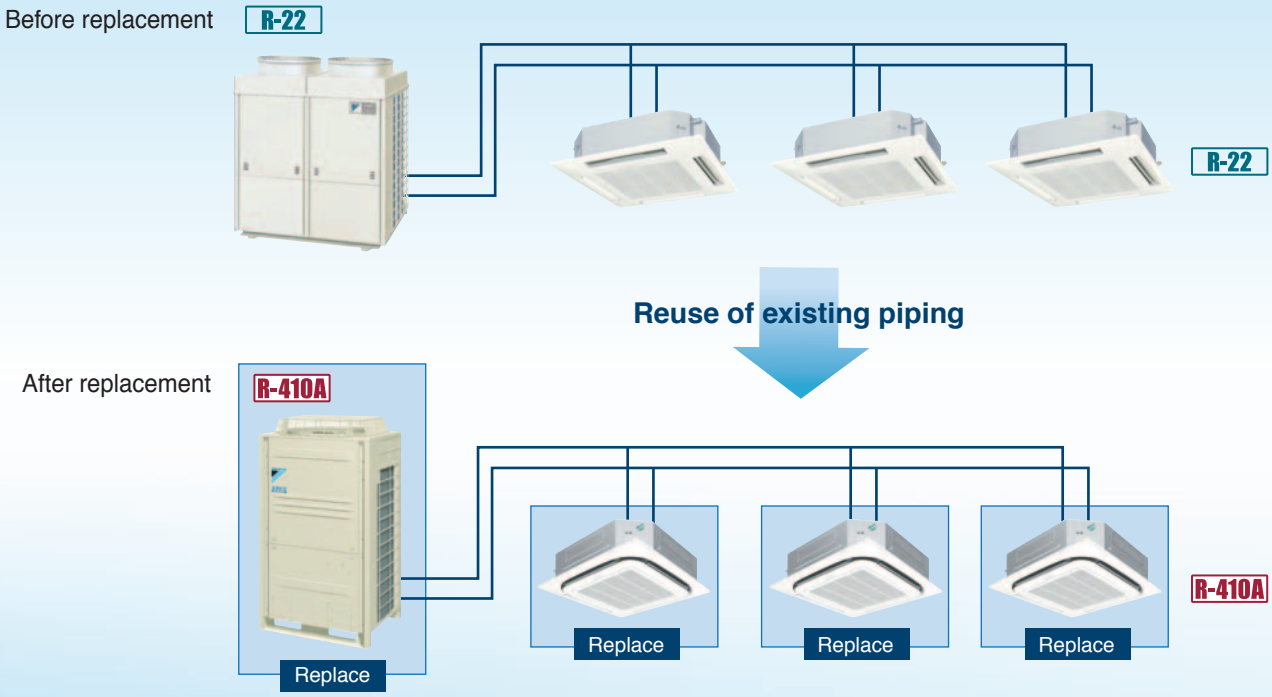
Refrigerant charging completed with just one switch.

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.

energy-saving air conditioning



* 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.

Installation process for replacement with VRV III-Q

1. Refrigerant recovery and units removal
2. Reuse of existing refrigerant piping
3. Carry-in and installation of units
4. Airtightness test
5. Vacuum drying
6. Automatic test operation
   - Automatic refrigerant pipe cleaning
   - Automatic refrigerant charge

Quicker and higher quality installation

Quicker installation

Conventional installation process for replacement of air conditioning

1. Refrigerant recovery and units removal
2. Removal of existing piping
3. Installation of new piping and wiring
4. Carry-in and installation of units
5. Airtightness test
6. Vacuum drying
7. Refrigerant charging and volume measurement
8. Test operation

Quicker installation

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

Benefits of system replacement

High COP

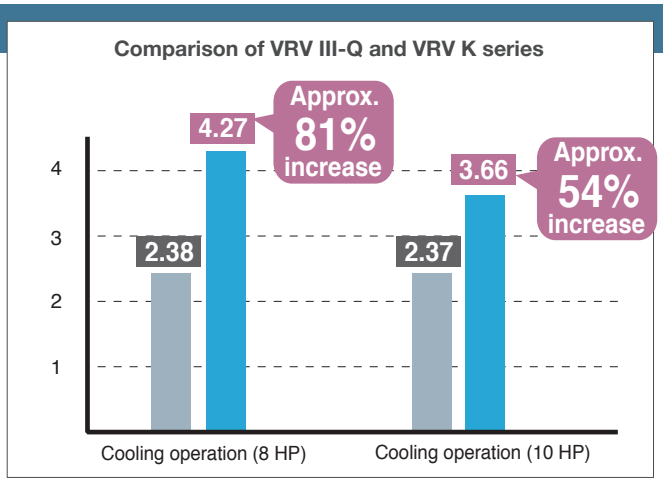
Saves energy with high COP

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

Conventional VRV K series
RSX(Y)8, 10K
(model from 14 years previous)

VRV III-Q
RQYQ8, 10P

• Cooling operating conditions: Indoor temp. of 27°CDB, 19.0 °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: RX(Y)16K
(model from 14 years previous)
16 HP outdoor unit

Installation space
2.25 m²

VRV III-Q : RQYQ16P
16 HP outdoor unit

Installation space
0.95 m²

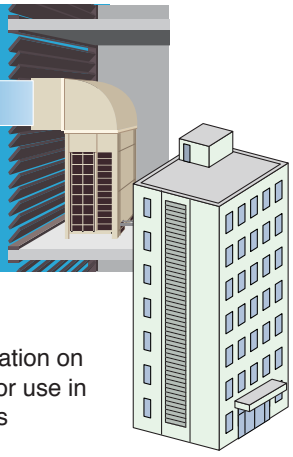
Approx. 58% less space

High external static pressure 78.4 Pa

Conventional VRV K series
(model from 14 years previous)
49.0 Pa

VRV III-Q
78.4 Pa

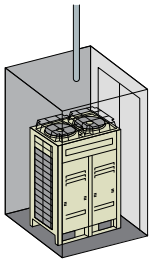
External static pressure
78.4 Pa
Easier suction hood connection (field setting)



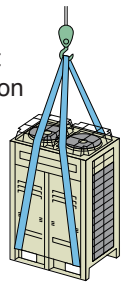
Easy installation on each floor for use in tall buildings

Small and light, significantly reducing constraints during carry-in

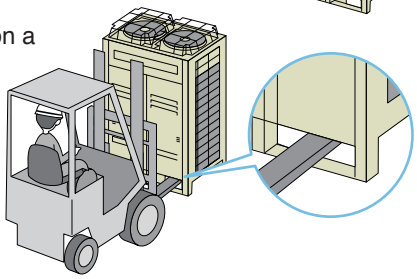
Carry-in possible using ordinary elevators



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!

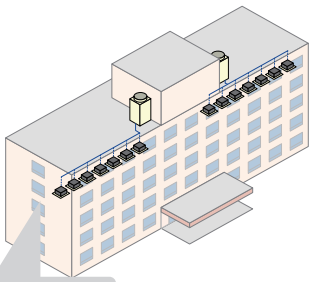
The number of connectable indoor units has been drastically increased from 30 to 64.

Conventional
VRV K PLUS series: RX(Y)24–30K
(model from 14 years previous)

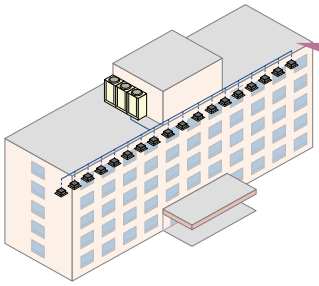
Up to 30 indoor units connectable

VRV III-Q : RQYQ40–48P

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

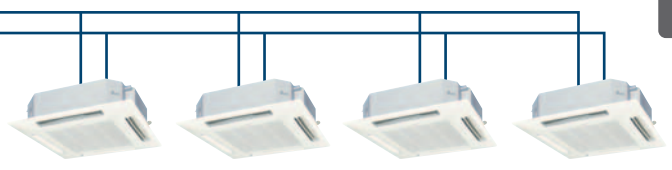
System can be upgraded using existing piping

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

R-22

Pipe size: ϕ28.6, ϕ12.7



R-22

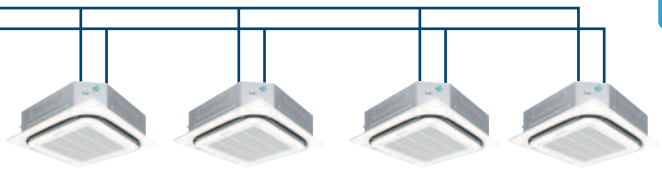
2.5 HP x 4 units

Reuse of existing piping

After replacement
VRV III-Q
16 HP

R-410A

Pipe size: ϕ28.6, ϕ12.7



R-410A

4.0 HP x 4 units

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

Lineup

System lineup for replacement use

Outdoor units

8, 10,12 HP

RQYQ8PY1
RQYQ10PY1
RQYQ12PY1

14, 16 HP

RQYQ14PY1
RQYQ16PY1

18, 20, 22, 24 HP

RQYQ18PY1 RQYQ22PY1
RQYQ20PY1 RQYQ24PY1

26, 28 HP

RQYQ26PY1
RQYQ28PY1

30, 32 HP

RQYQ30PY1
RQYQ32PY1

34, 36, 38, 40 HP

RQYQ34PY1 RQYQ38PY1
RQYQ36PY1 RQYQ40PY1

42, 44 HP

RQYQ42PY1
RQYQ44PY1

46, 48 HP

RQYQ46PY1
RQYQ48PY1

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 (%)			Maximum number of connectable indoor units
					50%	100%	130%	
8 HP	200	RQYQ8PY1	RQYQ8PY1	–	100	200	260	13
10 HP	250	RQYQ10PY1	RQYQ10PY1	–	125	250	325	16
12 HP	300	RQYQ12PY1	RQYQ12PY1	–	150	300	390	19
14 HP	350	RQYQ14PY1	RQYQ14PY1	–	175	350	455	22
16 HP	400	RQYQ16PY1	RQYQ16PY1	–	200	400	520	26
18 HP	450	RQYQ18PY1	RQYQ8PY1 + RQYQ10PY1	BHFP22P100	225	450	585	29
20 HP	500	RQYQ20PY1	RQYQ8PY1 + RQYQ12PY1		250	500	650	32
22 HP	550	RQYQ22PY1	RQYQ10PY1 + RQYQ12PY1		275	550	715	35
24 HP	600	RQYQ24PY1	RQYQ12PY1 + RQYQ12PY1		300	600	780	39
26 HP	650	RQYQ26PY1	RQYQ10PY1 + RQYQ16PY1		325	650	845	42
28 HP	700	RQYQ28PY1	RQYQ12PY1 + RQYQ16PY1		350	700	910	45
30 HP	750	RQYQ30PY1	RQYQ14PY1 + RQYQ16PY1		375	750	975	48
32 HP	800	RQYQ32PY1	RQYQ16PY1 + RQYQ16PY1		400	800	1,040	52
34 HP	850	RQYQ34PY1	RQYQ10PY1 + RQYQ10PY1 + RQYQ14PY1	BHFP22P151	425	850	1,105	55
36 HP	900	RQYQ36PY1	RQYQ10PY1 + RQYQ10PY1 + RQYQ16PY1		450	900	1,170	58
38 HP	950	RQYQ38PY1	RQYQ10PY1 + RQYQ12PY1 + RQYQ16PY1		475	950	1,235	61
40 HP	1,000	RQYQ40PY1	RQYQ12PY1 + RQYQ12PY1 + RQYQ16PY1		500	1,000	1,300	64
42 HP	1,050	RQYQ42PY1	RQYQ10PY1 + RQYQ16PY1 + RQYQ16PY1		525	1,050	1,365	
44 HP	1,100	RQYQ44PY1	RQYQ12PY1 + RQYQ16PY1 + RQYQ16PY1		550	1,100	1,430	
46 HP	1,150	RQYQ46PY1	RQYQ14PY1 + RQYQ16PY1 + RQYQ16PY1		575	1,150	1,495	
48 HP	1,200	RQYQ48PY1	RQYQ16PY1 + RQYQ16PY1 + RQYQ16PY1		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 of the outdoor-air processing units must not exceed 30% of the capacity index of the outdoor units.

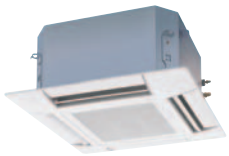
System lineup for replacement use

Indoor units

Ceiling Mounted Cassette (Round Flow)

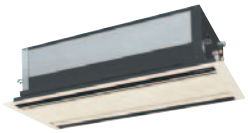
FXFQ25/32/40/50/63/80/100/125PVE

Ceiling Mounted Cassette (Compact Multi Flow)



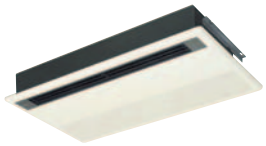
FXZQ20/25/32/40/50MVE

Ceiling Mounted Cassette (Double Flow)



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

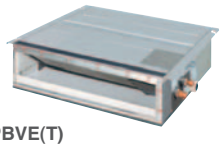
Ceiling Mounted Cassette Corner



FXKQ25/32/40/63MAVE

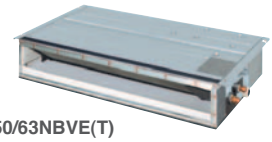
Slim Ceiling Mounted Duct

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

FXAQ20/25/32/40/50/63MAVE

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

HRV with DX-Coil and Humidifier

VKM50/80/100GA(M)V1

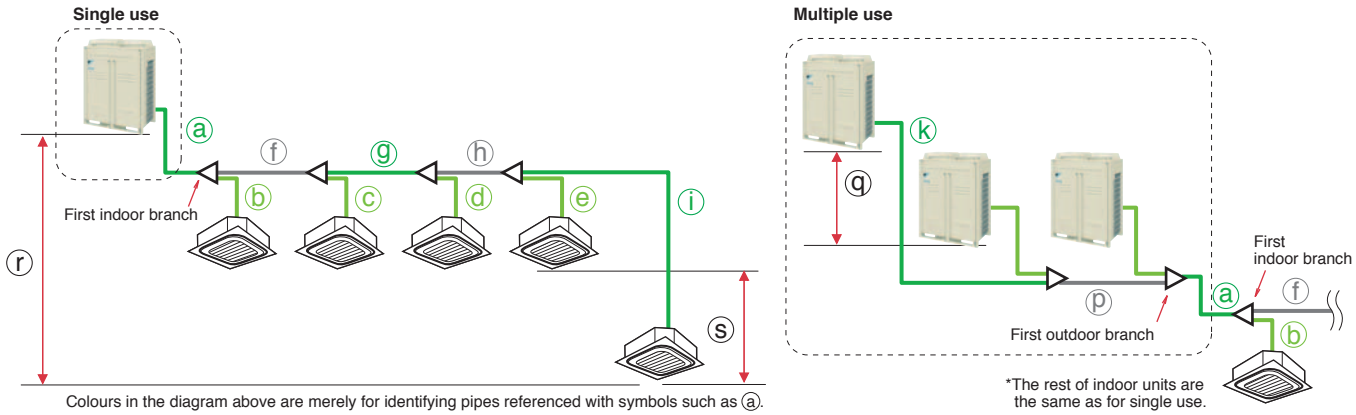
Heat Reclaim Ventilation

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



		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

Heat Pump

MODEL				RQYQ8PY1	RQYQ10PY1	RQYQ12PY1	RQYQ14PY1	RQYQ16PY1
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
Heating capacity		kcal/h		21,500	27,100	32,300	38,700	43,000
		Btu/h		85,300	107,000	128,000	154,000	171,000
		kW		25.0	31.5	37.5	45.0	50.0
Power consumption	Cooling (*2)	kW		5.24	7.64	10.1	11.6	13.6
	Heating			6.42	8.59	10.2	12.2	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		4.5×1	(1.4+4.5)×1	(3.3+4.5)×1	(1.6+4.5+4.5)×1	(2.7+4.5+4.5)×1
Airflow rate		m^3/min		180	185	200	233	233
Dimensions (HxWxD)		mm		1,680×930×765			1,680×1,240×765	
Machine weight		kg		230	284	284	381	381
Sound level		dB(A)		57	58	60	60	60
Operation range	Cooling	°CDB		–5 to 43				
	Heating	°CWB		–20 to 15.5				
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				RQYQ18PY1	RQYQ20PY1	RQYQ22PY1	RQYQ24PY1	RQYQ26PY1	RQYQ28PY1	RQYQ30PY1	RQYQ32PY1
	Combination units			RQYQ8PY1 RQYQ10PY1	RQYQ8PY1 RQYQ12PY1	RQYQ10PY1 RQYQ12PY1	RQYQ12PY1 RQYQ12PY1	RQYQ10PY1 RQYQ16PY1	RQYQ12PY1 RQYQ16PY1	RQYQ14PY1 RQYQ16PY1	RQYQ16PY1 RQYQ16PY1
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
Heating capacity		kcal/h		48,600	53,800	59,300	64,500	70,100	75,300	81,700	86,000
		Btu/h		193,000	213,000	235,000	256,000	278,000	299,000	324,000	341,000
		kW		56.5	62.5	69.0	75.0	81.5	87.5	95.0	100
Power consumption	Cooling (*2)	kW		12.9	15.4	17.8	20.2	21.3	23.7	25.2	27.2
	Heating			15.1	16.7	18.8	20.4	22.2	23.8	25.8	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		(4.5×1)+ ((1.4+4.5)×1)	(4.5×1)+ ((3.3+4.5)×1)	((1.4+4.5)×1)+ ((3.3+4.5)×1)	((3.3+4.5)×1)+ ((3.3+4.5)×1)	((1.4+4.5)×1)+ ((2.7+4.5+4.5)×1)	((3.3+4.5)×1)+ ((2.7+4.5+4.5)×1)	((1.6+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		m^3/min		180+185	180+200	185+200	200+200	185+233	200+233	233+233	233+233
Dimensions (HxWxD)		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		230+284	230+284	284+284	284+284	284+381	284+381	381+381	381+381
Sound level		dB(A)		61	62	63	63	63	63	63	63
Operation range	Cooling	°CDB		–5 to 43							
	Heating	°CWB		–20 to 15.5							
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)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)

Note: Specifications are based on the following conditions;
- Cooling: (*1) Indoor temp. of 27°CDB, 19.5°CWB, and outdoor temp. of 35.0°CDB.
  (*2) Indoor temp. of 27°CDB, 19.0°CWB, and outdoor temp. of 35.0°CDB.
- Heating: Indoor temp. of 20°CDB, and outdoor temp. of 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.

Specifications

Outdoor units

Heat Pump

MODEL			RQYQ34PY1	RQYQ36PY1	RQYQ38PY1	RQYQ40PY1	RQYQ42PY1	RQYQ44PY1	RQYQ46PY1	RQYQ48PY1
Combination units			RQYQ10PY1 RQYQ10PY1 RQYQ14PY1	RQYQ10PY1 RQYQ10PY1 RQYQ16PY1	RQYQ10PY1 RQYQ12PY1 RQYQ16PY1	RQYQ12PY1 RQYQ12PY1 RQYQ16PY1	RQYQ10PY1 RQYQ16PY1 RQYQ16PY1	RQYQ12PY1 RQYQ16PY1 RQYQ16PY1	RQYQ14PY1 RQYQ16PY1 RQYQ16PY1	RQYQ16PY1 RQYQ16PY1 RQYQ16PY1
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
Heating capacity		kcal/h	92,700	97,200	102,000	108,000	114,000	119,000	125,000	129,000
		Btu/h	368,000	386,000	406,000	427,000	450,000	471,000	495,000	521,000
		kW	108	113	119	125	132	138	145	150
Power consumption	Cooling (*2)	kW	26.9	28.9	31.4	33.8	34.9	35.3	38.8	40.8
	Heating		29.4	30.8	32.4	34.0	35.8	36.0	39.4	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)x1)+ ((1.4+4.5)x1)+ ((1.6+4.5+4.5)x1)	((1.4+4.5)x1)+ ((1.4+4.5)x1)+ ((2.7+4.5+4.5)x1)	((1.4+4.5)x1)+ ((3.3+4.5)x1)+ ((2.7+4.5+4.5)x1)	((3.3+4.5)x1)+ ((3.3+4.5)x1)+ ((2.7+4.5+4.5)x1)	((1.4+4.5)x1)+ ((2.7+4.5+4.5)x1)+ ((2.7+4.5+4.5)x1)	((3.3+4.5)x1)+ ((2.7+4.5+4.5)x1)+ ((2.7+4.5+4.5)x1)	((1.6+4.5+4.5)x1)+ ((2.7+4.5+4.5)x1)+ ((2.7+4.5+4.5)x1)	((2.7+4.5+4.5)x1)+ ((2.7+4.5+4.5)x1)+ ((2.7+4.5+4.5)x1)
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 (HxWxD)		mm	(1,680x930x765)+(1,680x930x765)+(1,680x1,240x765)				(1,680x930x765)+(1,680x1,240x765) +(1,680x1,240x765)		(1,680x1,240x765)+(1,680x1,240x765) +(1,680x1,240x765)	
Machine weight		kg	284+284+381	284+284+381	284+284+381	284+284+381	284+381+381	284+381+381	381+381+381	381+381+381
Sound level		dB(A)	64	64	65	65	65	65	65	65
Operation range	Cooling	°CDB	–5 to 43							
	Heating	°CWB	–20 to 15.5							
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. of 27°CDB, 19.5°CWB, and outdoor temp. of 35.0°CDB.
  (*2) Indoor temp. of 27°CDB, 19.0°CWB, and outdoor temp. of 35.0°CDB.
- Heating: Indoor temp. of 20°CDB, and outdoor temp. of 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.

Option List

Outdoor units

No.	Item \ Type		RQYQ8PY1 RQYQ10PY1 RQYQ12PY1	RQYQ14PY1 RQYQ16PY1	RQYQ18PY1 RQYQ20PY1 RQYQ22PY1
1	Cool/Heat Selector		KRC19–26A		
1-1	Fixing box		KJB111A		
2	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	
3	Outdoor unit multi connection piping kit		—	—	BHFP22P100
4	Central drain pan kit		KWC26C280	KWC26C450	KWC26C280x2
5	Digital pressure gauge kit		BHGP26A1		BHGP26A1x2

No.	Item \ Type		RQYQ24PY1	RQYQ26PY1 RQYQ28PY1	RQYQ30PY1 RQYQ32PY1	RQYQ34PY1 RQYQ36PY1 RQYQ38PY1 RQYQ40PY1	RQYQ42PY1 RQYQ44PY1	RQYQ46PY1 RQYQ48PY1
1	Cool/Heat Selector		KRC19–26A					
1-1	Fixing box		KJB111A					
2	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					
3	Pipe size reducer		KHRP26M73TP, KHRP26M73HP					
4	Outdoor unit multi connection piping kit		BHFP22P100			BHFP22P151		
5	Central drain pan kit		KWC26C280x2	KWC26C280 KWC26C450	KWC26C450x2	KWC26C280x2 KWC26C450	KWC26C280 KWC26C450x2	KWC26C450x3
6	Digital pressure gauge kit		BHGP26A1x2			BHGP26A1x3		

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			Software	PPD		DCS002C51	•PPD: Power Proportional Distribution function
1-3				Web		DCS004A51	•Monitors and controls the air conditioning system using the Internet and a Web browser application on a PC.
1-4	Electrical box with earth terminal (4 blocks)					KJB411AA	•Wall embedded switch box.
2	intelligent Manager III	Basic	Hardware	Number of units to be connected	128 units	DAM602B52	•Air conditioner management system that can be controlled by personal computers.
					256 units	DAM602B51	
					512 units	DAM602B51×2	
					768 units	DAM602B51×3	
					1024 units	DAM602B51×4	
2-1		Option	Software		PPD	DAM002A51	•Power Proportional Distribution function
2-2					Web	DAM004A51	•Monitors and controls the air conditioning system using the Internet and a Web browser application on a PC.
2-3					ECONO	DAM003A51	•ECONO (Energy saving functions.)
2-4	Optional DIII Ai unit					DAM101A51	•External temperature sensor for intelligent Manager III.
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	Parallel interface Basic unit				DPF201A51	•Enables ON/OFF command, operation and display of malfunction; can be used in combination with up to 4 units.
6		Temperature measurement units				DPF201A52	•Enables temperature measurement output for 4 groups; 0-5VDC.
7		Temperature setting units				DPF201A53	•Enables temperature setting input for 16 groups; 0-5VDC.
8		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 registered trade mark of Echelon Corporation.
*3. Installation box for ★ adaptor must be obtained locally.

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

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.

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.

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

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.
Head Office:
Umeda Center Bldg., 2-4-12, Nakazaki-Nishi,
Kita-ku, Osaka, 530-8323 Japan

Tokyo Office:
JR Shinagawa East Bldg., 2-18-1, Konan,
Minato-ku, Tokyo, 108-0075 Japan

http://www.daikin.com/global_ac/

Printed in Japan 08/10/005 Y.K.