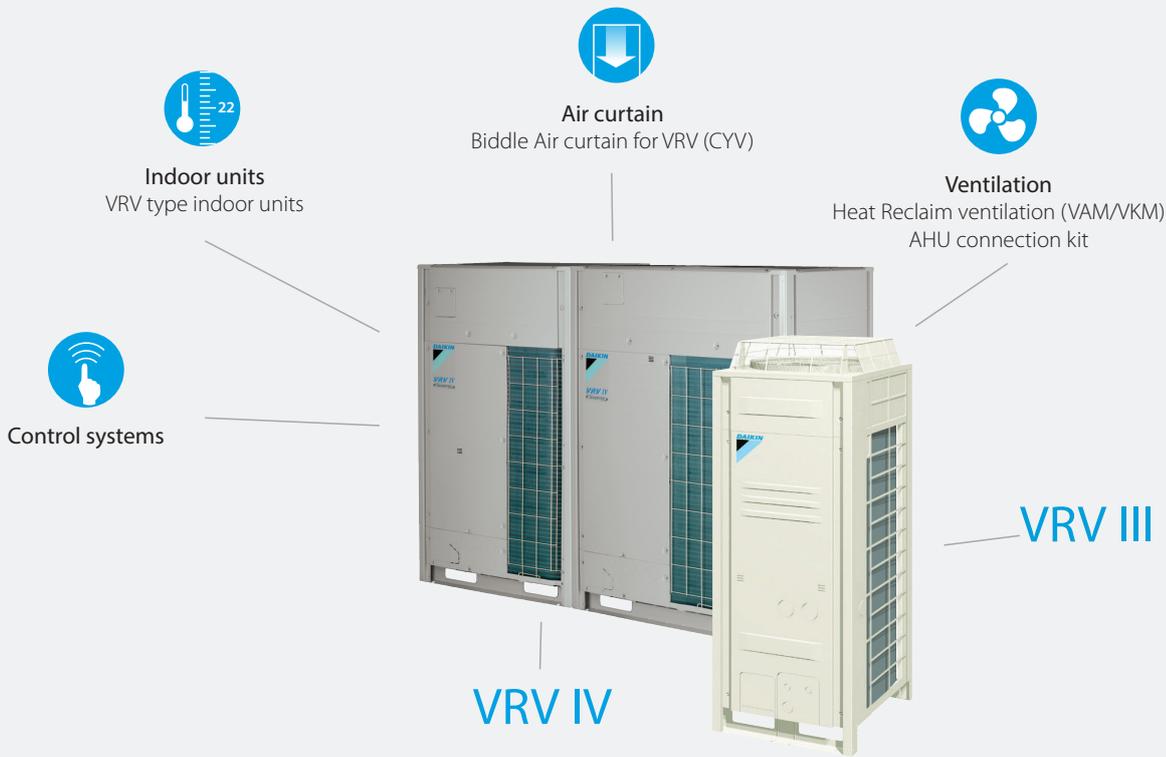


Replacement VRV



Quick & quality replacement for R-22 and R-407C systems



Outdoor Unit Product Range

VRV IV Q-series

Heat pump

Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

VRV configurator

Software for simplified commissioning, configuration and customisation

- › 7 segment indicator
- › Automatic refrigerant charge
- › Night quiet mode
- › Low noise function
- › Full inverter compressors
- › Gas cooled PCB
- › 4 side heat exchanger
- › Reluctance brushless DC compressor
- › Sine wave DC inverter
- › DC fan motor
- › E-pass heat exchanger
- › I demand function
- › Manual demand function



VRV III-Q

Heat pump & Heat recovery

- › Automatic refrigerant charge
- › Night quiet mode
- › Low noise function
- › Full inverter compressors
- › Reluctance brushless DC compressor
- › Sine wave DC inverter
- › DC fan motor
- › E-pass heat exchanger
- › I demand function
- › Manual demand function

For more information on these features refer to the VRV IV technologies tab

Replacement technology



The quick and quality way of upgrading R-22 and R-407C systems

These benefits will convince your customer

Drastically improve your efficiency, comfort and reliability

Avoid loss of business

Replacing now prevents unplanned, lengthy downtime of air conditioning systems. It also avoids loss of business for shops, complaints from guests in hotels, lower working efficiency and loss of tenants in offices.

Quick and easy installation

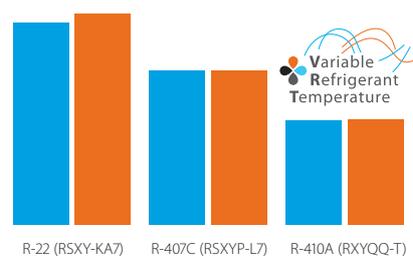
No interruption of daily business while replacing the system thanks to phased-in, fast installation.

Smaller footprint, more performance

Thanks to a smaller footprint, Daikin outdoor units save space. Also, more indoor units can be connected to the new outdoor unit compared to the old system, allowing to increase capacity.

Lower long-term costs

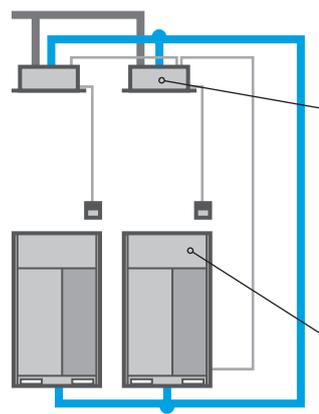
EU Directives prohibit system repairs with R-22 after January 1, 2015. Delaying the required R-22 replacement until an unplanned system breakdown is a losing game. Replacement day will come. Installing a technically advanced system lowers energy consumption and maintenance costs from day one.



Up to 48% less consumption

Comparison of 10HP systems:
■ Cooling mode
■ Heating mode

Keep your refrigerant piping



The Daikin low-cost upgrade solution

! Replace indoor units and BS boxes

Contact your local dealer to check compatibility in case you need to keep the indoor units.

! Replace outdoor units

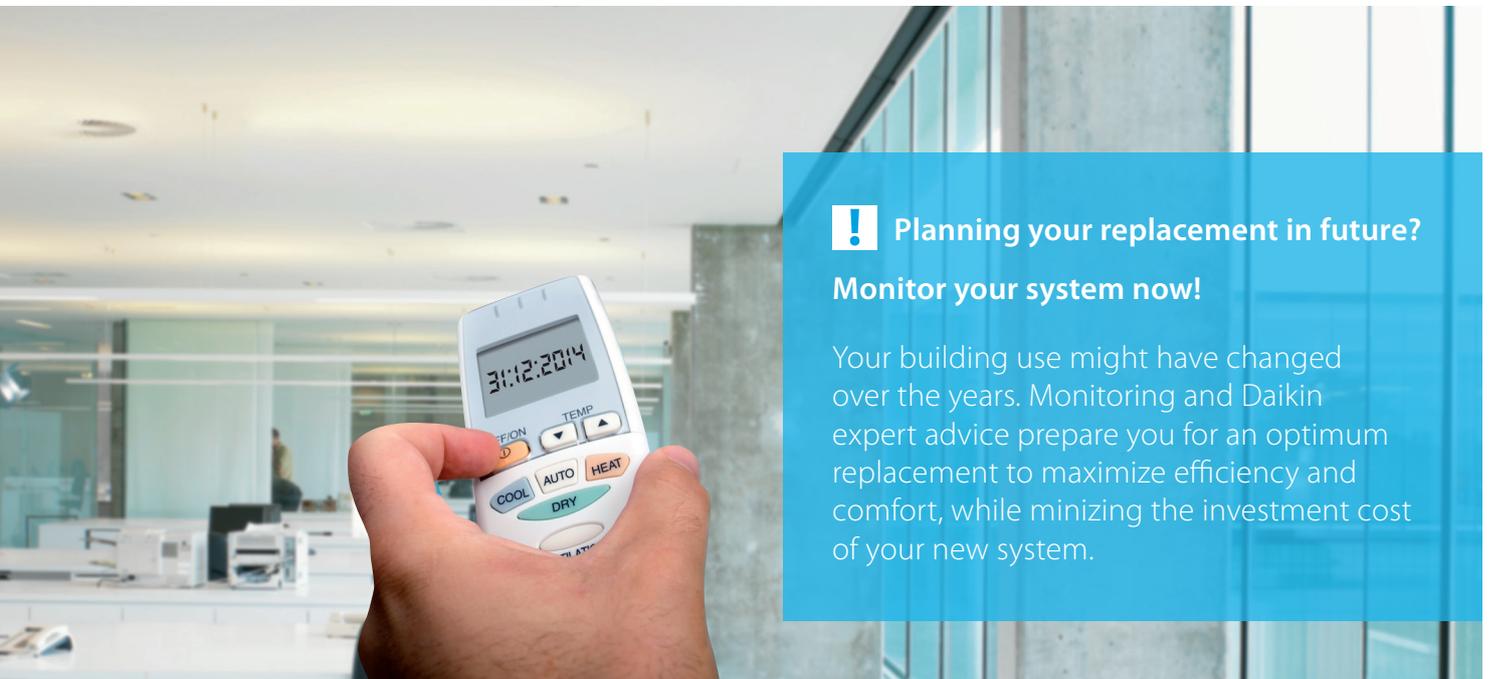
Your copper pipes will last for multiple generations

- copper pipes used in air conditioning systems tested by Daikin will last over 60 years after installation.
- Japan/China have replaced with VRV Q-series already 10 years ago!

Umeda Center Building, Japan

- original A/C system: 20 years in use
- replacement with VRV Q-series: 2006 - 2009
- capacity up from 1620HP to 2322HP
- SHASE renewal award:





! Planning your replacement in future?

Monitor your system now!

Your building use might have changed over the years. Monitoring and Daikin expert advice prepare you for an optimum replacement to maximize efficiency and comfort, while minizing the investment cost of your new system.

VRV-Q benefits to increase your profit

Optimise your business

Less installation time

Tackle more projects in less time thanks to faster installation. It is more profitable than replacing the full system with new piping.

Lower installation costs

Reducing installation costs enables you to offer customers the most cost-effective solution and improve your competitive edge.

Replace non-Daikin systems NON DAIKIN DAIKIN

It is a trouble-free replacement solution for Daikin systems and for systems made by other manufacturers.

Easy as one-two-three

A simple solution for replacement technology enables you to handle more projects for more customers in less time and offer them the best price! Everybody gains.

Compare installation steps

Conventional solution

- 1 Recover refrigerant
- 2 Remove units
- 3 Remove refrigerant pipes
- 4 Install new piping and wiring
- 5 Install new units
- 6 Leak test
- 7 Vacuum drying
- 8 Refrigerant charging
- 9 Test operation

VRV-Q

- 1 Recover refrigerant
- 2 Remove units
- Re-use existing piping and wiring
- 3 Install new units
- 4 Leak test
- 5 Vacuum drying
- 6 Automatic refrigerant charging, cleaning and testing



Up to 45% shorter installation time

Automatic refrigerant charge

The unique automatic refrigerant charge eliminates the need to calculate refrigerant volume and ensures that the system will operate perfectly. Not knowing the exact piping lengths because of changes or mistakes in case you didn't do the original installation or replacing a competitor installation no longer poses a problem.

Automatic pipe cleaning

There is no need to clean inside piping as this is handled automatically by the VRV-Q unit. Finally the test operation is performed automatically to save time.



One touch convenience:

- > Measure and charge refrigerant
- > Automatic pipe cleaning
- > Test operation

Replacement VRV

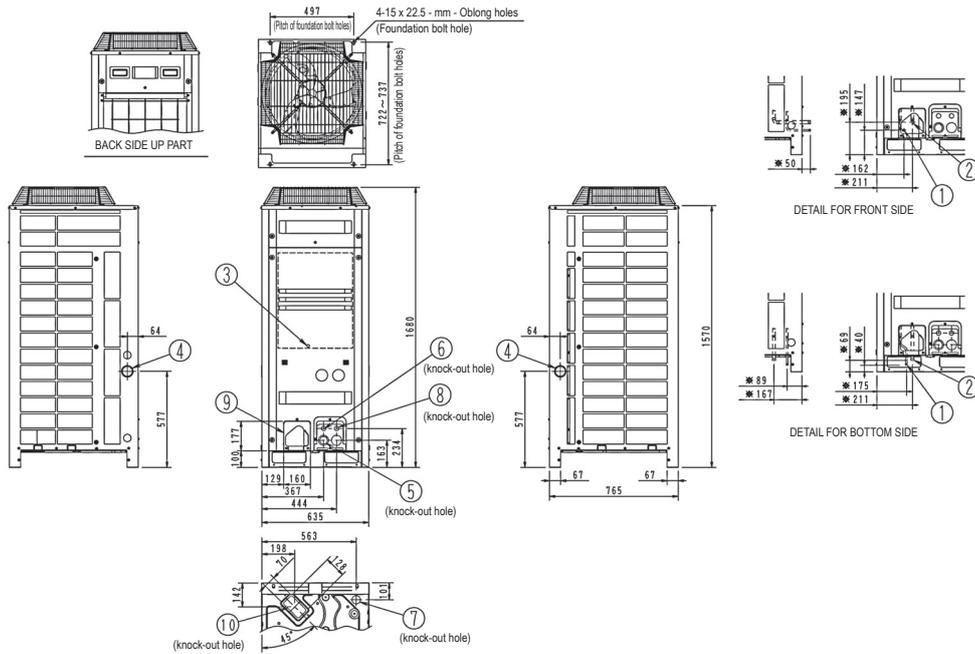


Outdoor unit		RXYQQ-T	RQYQ140P	8T	10T	12T	14T	16T	18T	20T		
System	Outdoor unit module 1		RQYQ140P									
Capacity range		HP	5	8	10	12	14	16	18	20		
Cooling capacity	Nom.	kW	14.0	22.4	28.0	33.5	40.0	45.0	50.4	56.0		
	Max.	kW	-	25.00	31.50	37.50	45.00	50.00	56.50	63.00		
Power input - 50Hz	Cooling	Nom.	kW	3.36	5.21	7.29	8.98	11.0	13.0	15.0	18.5	
		Nom.	kW	3.91	4.75	6.29	7.77	9.52	11.1	12.6	14.50	
	Heating	Max.	kW	-	5.5	7.38	9.1	11.2	12.8	14.6	17.0	
EER		kW	4.17	4.30	3.84	3.73	3.64	3.46	3.36	3.03		
ESEER - Automatic			-	7.53	7.20	6.96	6.83	6.50	6.38	5.67		
ESEER - Standard			-	6.37	5.67	5.50	5.31	5.05	4.97	4.42		
COP at nominal capacity		kW	4.09	4.72	4.45	4.31	4.20	4.05	4.00	3.86		
COP at maximum capacity		kW	-	4.54	4.27	4.12	4.02	3.91	3.87	3.71		
Maximum number of connectable indoor units			10							64		
Indoor index connection	Min.		62.5	100	125	150	175	200	225	250		
	Nom.		125	200	250	300	350	400	450	500		
	Max.		162.5	260	325	390	455	520	585	650		
Dimensions	Unit	HeightxWidthxDepth	mm	1,680x635x765			1,685x930x765			1,685x1,240x765		
Weight	Unit		kg	175	187	194		305		314		
Fan	Air flow rate	Cooling	Nom.	m ³ /min	95	162	175	185	223	260	251	261
Sound power level	Cooling	Nom.		dB(A)	-	78	79	81		86		88
Sound pressure level	Cooling	Nom.		dB(A)	54.0	58		61		64	65	66
Operation range	Cooling	Min.-Max.		°CDB	-5~43							
	Heating	Min.-Max.		°CWB	-20~-15.5							
Refrigerant	Type			R-410A								
	Charge		kg	11.1	5.9	6	6.3	10.3	10.4	11.7	11.8	
			TCO ₂ eq	23.2	12.3	12.5	13.2	21.5	21.7	24.4	24.6	
	GWP			2,087.5								
Piping connections	Liquid	OD	mm	9.52			12.7			15.9		
	Gas	OD	mm	15.9	19.1	22.2				28.6		
	Total piping length	System	Actual				300			28.6		
Power supply	Phase/Frequency/Voltage		Hz/V	3~/50/380-415			3N~/50/380-415					
Current - 50Hz	Maximum fuse amps (MFA)		A	15	20	25	32			40	50	

Outdoor unit		RXYQQ-T	22T	24T	26T	28T	30T	32T	34T	36T	38T	40T	42T	
System	Outdoor unit module 1		RXYQQ10T	RXYQQ8T	RXYQQ12T									
	Outdoor unit module 2		RXYQQ12T	RXYQQ16T	RXYQQ14T	RXYQQ16T	RXYQQ18T	RXYQQ16T	RXYQQ18T	RXYQQ20T	RXYQQ10T	RXYQQ12T	RXYQQ16T	
	Outdoor unit module 3													
				-										
Capacity range		HP	22	24	26	28	30	32	34	36	38	40	42	
Cooling capacity	Nom.	kW	61.5	67.4	73.5	78.5	83.9	90.0	95.4	101.0	106.3	111.9	118.0	
	Max.	kW	-	-	-	-	94.0	-	106.5	-	119.0	125.5	-	
Power input - 50Hz	Cooling	Nom.	kW	16.27	18.21	19.98	21.98	24.0	26.0	28.0	31.5	29.2	31.3	33.29
		Nom.	kW	16.48	18.31	20.30	21.90	20.4	25.6	23.7	29.8	25.1	26.7	32.98
	Heating	Max.	kW	-	-	-	-	23.7	-	27.4	-	29.2	31.1	-
EER		kW	3.78	3.70	3.68	3.57	3.5		3.4	3.2	3.6		3.54	
ESEER - Automatic			7.07	6.81	6.89	6.69	6.60	6.50	6.44	6.02	6.36	6.74	6.65	
ESEER - Standard			5.58	5.42	5.39	5.23	5.17	5.05	5.01	4.68	5.03	5.29	5.19	
COP at nominal capacity		kW	4.37	4.25		4.16	4.10	4.05	4.00	3.95	4.2		4.14	
COP at maximum capacity		kW	4.19	4.10	4.06	4.00		3.91	3.90	3.79	4.1	4.0	3.99	
Maximum number of connectable indoor units			64											
Indoor index connection	Min.		275	300	325	350	375	400	425	450	475	500	525	
	Nom.		550	600	650	700	750	800	850	900	950	1,000	1,050	
	Max.		715	780	845	910	975	1,040	1,105	1,170	1,235	1,300	1,365	
Piping connections	Liquid	OD	mm	15.9			19.1							
	Gas	OD	mm	28.6	34.9					41.3				
	Total piping length	System	Actual				300			41.3				
Current - 50Hz	Maximum fuse amps (MFA)		A	63				80				100		

Contains fluorinated greenhouse gases | The STANDARD ESEER value corresponds with normal VRV4 Heat Pump operation, not taking into account advanced energy saving operation functionality | The AUTOMATIC ESEER value corresponds with normal VRV4 Heat Pump operation, taking into account advanced energy saving operation functionality (variable refrigerant temperature control operation) | Actual number of connectable indoor units depends on the indoor unit type (VRV indoor, Hydrobox, RA indoor, etc.) and the connection ratio restriction for the system (50% <= CR <= 130%)

RQYQ140P



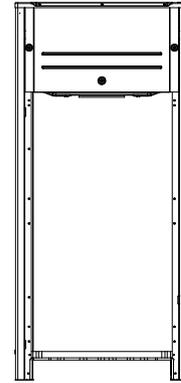
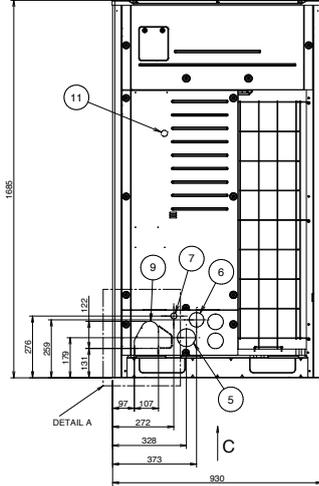
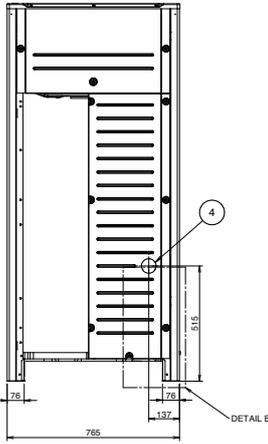
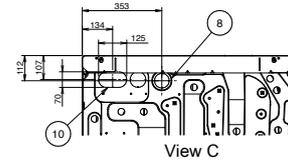
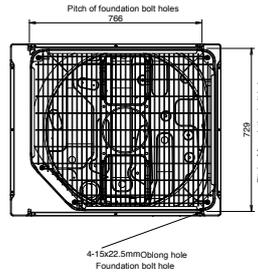
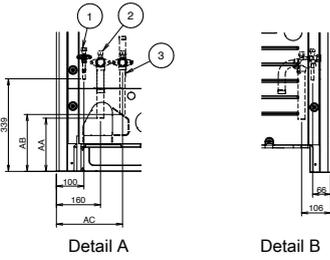
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No.	Parts name	Remarks
1	Liquid pipe connection port	ø9.5 Brazing connection
2	Gas pipe connection port	See note 3.
3	Grounding terminal	Inside of switch box (M8)
4	Power cord routing hole (side)	ø62
5	Power cord routing hole (front)	ø45
6	Power cord routing hole (front)	ø27
7	Power cord routing hole (bottom)	ø50
8	Wire routing hole (front)	ø27
9	Pipe routing hole (front)	See note 2.
10	Pipe routing hole (bottom)	See note 2.

NOTES

- ✱ shows the dimensions after fixing the accessory pipes.
- For piping connection method (front and bottom sides) see the installation manual.
- Gas pipe
ø15.9 Brazing connection: RQYQ140P

RXYQQ8-12T



Model	AA	AB	AC
RXYQB8, RXYQB8T, RXYQB8T	248	-	-
RXYQ10-12T, RXYQ10-12T, RXYQ10-12T	195	-	-
RXYMQ8T	248	208	240
REMGS8T, RXYMQ10-12T, REYQB8-12T	195	208	240

Notes

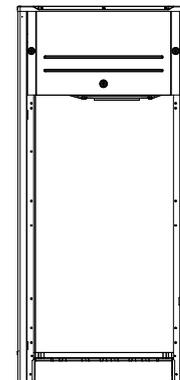
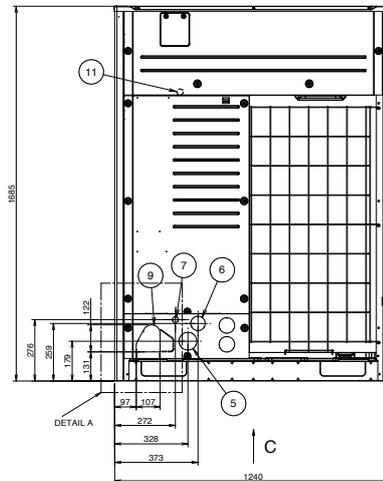
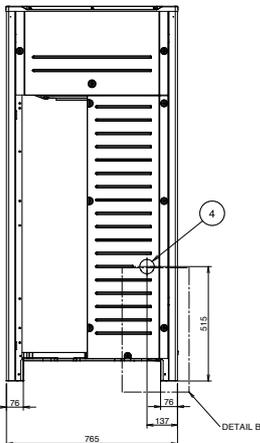
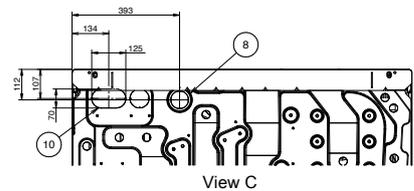
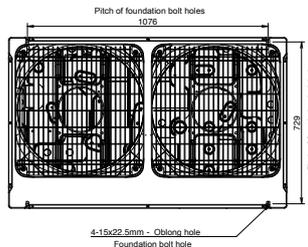
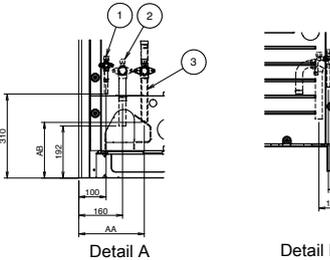
- Detail A and detail B indicate the dimensions after fixing the attached piping.
- Items 4 - 10: Knockout hole.
- Gas pipe
 - RXYQB8T, RXYQB8T, RXYQB8T, RXYQB8T : Ø 19.1 brazing connec
 - RXYQ10T, RXYQ10T, RXYQ10T, RXYQ10T : Ø 22.2 brazing connec
 - REMGS8T, REYQB8-12T : Ø 25.4 brazing connec
 - RXYQ12T, RXYQ12T, RXYQ12T, RXYQ12T : Ø 28.6 brazing connec

- Liquid pipe
- RXYQB8-10T, RXYQB8-10T, RXYQB8-10T, RXYQB8-10T, REMGS8T, REYQB8-12T : Ø 9.5 brazing connection
 - RXYQ12T, RXYQ12T, RXYQ12T, RXYQ12T : Ø 12.7 brazing connection
- Equalising pipe
- RXYQB8-10T : Ø 19.1 brazing connection
 - RXYMQ12T : Ø 22.2 brazing connection
- High pressure/low pressure gas pipe
- REMGS8T, REYQB8-12T : Ø 19.1 brazing connection

11	Grounding terminal	Inside of the switch box (M8)
10	Pipe routing hole (bottom)	
9	Pipe routing hole (front)	
8	Power cord routing hole (bottom)	O65
7	Power cord routing hole (front)	O27
6	Power cord routing hole (front)	O65
5	Power cord routing hole (front)	O80
4	Power cord routing hole (side)	O65
3	Equalising pipe connection port High pressure/low pressure gas pipe	See note 3.
2	Gas pipe connection port	See note 3.
1	Liquid pipe connection port	See note 3.
No.	Part name	Remark

2D079532B

RXYQQ14-20T



Model	AA	AB
RXYMQ14-16T, RXYQ14-16T, REYQ14-20T	240	205
RXYMQ18-20T, RXYQ18-20T	240	210

Notes

- Detail A and detail B indicate the dimensions after fixing the attached piping.
- Items 4 - 10: Knockout hole.
- Gas pipe
 - REYQ14-20T : Ø 25.4 brazing connection
 - RXYQ14-20T, RXYQ14-20T, RXYQ14-20T, RXYQ14-20T : Ø 28.6 brazing connection
- Liquid pipe
 - RXYQ18-20T, RXYQ18-20T, RXYQ18-20T, RXYQ18-20T : Ø 12.7 brazing connection
 - RXYQ18-20T, RXYQ18-20T, RXYQ18-20T, RXYQ18-20T : Ø 15.9 brazing connection

- Equalising pipe
- RXYMQ14-16T : Ø 22.2 brazing connection
 - RXYMQ18-20T : Ø 28.6 brazing connection
 - REYQ14-20T : Ø 22.2 brazing connection

11	Grounding terminal	Inside of the switch box (M8)
10	Pipe routing hole (bottom)	
9	Pipe routing hole (front)	
8	Power cord routing hole (bottom)	O65
7	Power cord routing hole (front)	O27
6	Power cord routing hole (front)	O65
5	Power cord routing hole (front)	O80
4	Power cord routing hole (side)	O65
3	Equalising pipe connection port High pressure/low pressure gas pipe	See note 3.
2	Gas pipe connection port	See note 3.
1	Liquid pipe connection port	See note 3.
No.	Part name	Remark

2D079533B

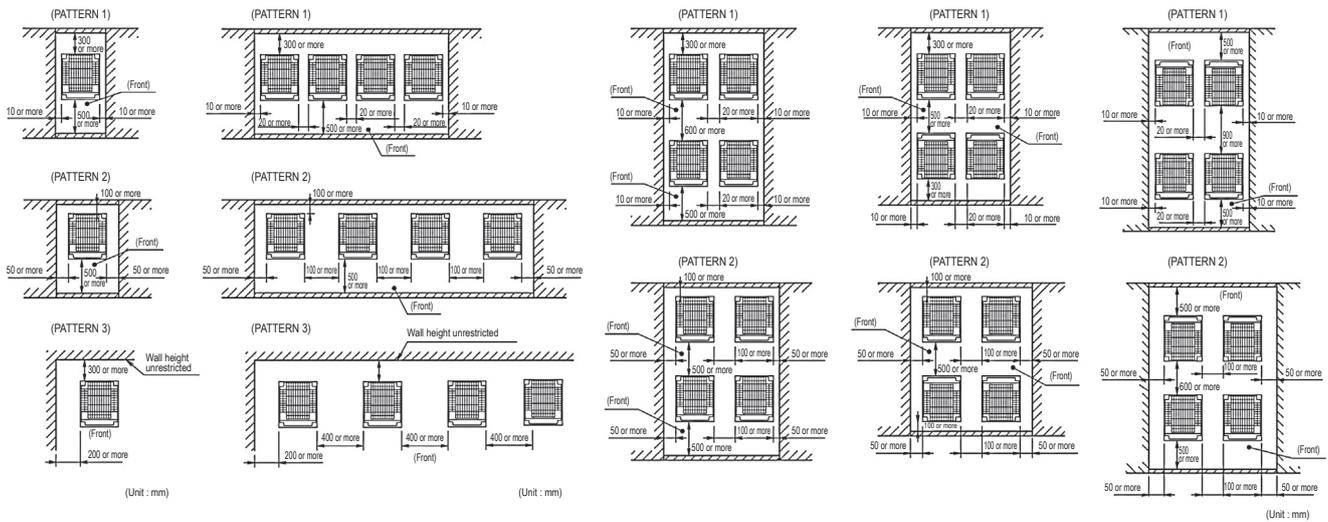
RQYQ140P

RQYQ140P

For single unit installation

For installation in rows

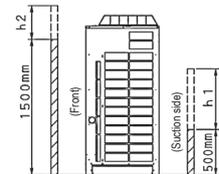
For centralized group layout



3D066327

NOTES

- 1 Heights of walls in case of patterns 1 and 2: Front: 1500mm. Suction side: 500 mm. Side: Height unrestricted. Installation space to be shown in this drawing is based on the cooling operation at 35 degrees outdoor air temperature. When the design outdoor air temperature exceeds 35 degrees or the load exceeds maximum ability because of much generation load heat in all outdoor unit, take the suction side space more broadly than the space to be shown in this drawing.
- 2 If the above wall heights are exceeded then h2/2 and h1/2 should be added to the front and suction side service spaces respectively as shown in the figure on the right.
- 3 When installing the units the most appropriate pattern should be selected from those shown above in order to obtain the best fit in the space available always bearing in mind the need to leave enough room for a person to pass between units and wall and for the air to circulate freely. (If more units are to be installed than are catered for in the above patterns your layouts should take account of the possibility of short circuits.)
- 4 The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.

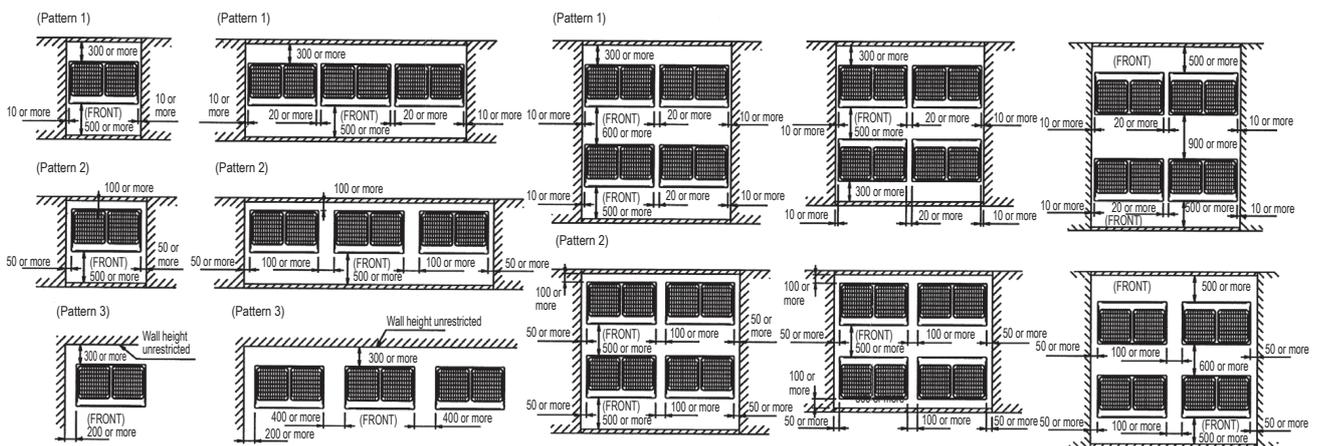


RXYQQ-T

For single unit installation

For installation in rows

For centralized group layout



NOTES

3D079542

1. Heights of walls in case of patterns 1 and 2:
Front: 1500mm
Suction side: 500mm
Side: Height unrestricted
Installation space as shown on this drawing is based on the cooling operation at 35 degrees outdoor air temperature.
When the design outdoor air temperature exceeds 35 degrees or the load exceeds maximum ability of much generation load of heat in all outdoor unit, take the suction side space more broadly than the space as shown on this drawing.
2. If the above wall heights are exceeded then h2/2 and h1/2 should be added to the front and suction side service spaces respectively as shown in the figure on the right.
3. When installing the units most appropriate pattern should be selected from those shown above in order to obtain the best fit in the space available. Always keep in mind the need to leave enough space for a person to pass between units and wall and also for the air to circulate freely. (If more units are to be installed than are catered for in the above patterns your layout should take account of the possibility of short circuits.)
4. The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.

