



Air Conditioners

Technical Data



Air - cooled selection procedure for replacement VRV



EEDEN13-202



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1 Selection procedure Replacement VRV

General replacement procedure

1. Replace or keep indoor units
2. Replace BS-boxes by BSVQ-P boxes in case of a Heat Recovery system.
3. Replace outdoor unit by Replacement VRV of equivalent or bigger capacity.
4. Keep refrigerant piping
5. The system will automatically clean the refrigerant piping and charge the correct amount of R-410A

1 - 1 Indoor unit selection

In some cases it is possible to initially keep the R-22 indoor units and replace them at a later stage.

Keep indoor units

R-22 indoor units of K series or later can be kept. R-22 indoor units from before K series and R-407C indoor units need to be replaced.



It is not possible to combine R-410A and R-22 indoor units in one system.

Install new indoor units

Select the indoor unit with a capacity at given indoor and outdoor temperature that is nearest to and higher than the given load.

All current Daikin R-410A indoor units can be used.



It is not possible to combine R-410A and R-22 indoor units in one system.

1 - 2 BS-boxes

In case of a Heat Recovery system BS-boxes need to be replaced by BSVQ-P boxes

1 - 3 Outdoor unit selection

In general, outdoor units should be selected in such a way that the sum of indoor unit capacity indexes is near to 100% connection ratio of the outdoor unit and not over 130% connection ratio.

Keep same capacity

If the indoor units are kept or are replaced by indoor units of the same capacity, replace the R-22 or R470C outdoor unit by a Replacement VRV outdoor unit of equivalent capacity.

Replacement VRV - Heat recovery	Fixed combinations	Capacity range HP	Cooling capacity kW	Heating capacity kW	N° of outdoors	N° of compressors	N° of connectable indoor units	Indoor unit combination ratio								
								130%	120%	110%	100%	90%	80%	70%	60%	50%
RQEQ280P	RQEQ140P + RQEQ140P	10	28.0	32.0	2	2	21	364	336	308	280	252	224	196	168	140
RQEQ360P	RQEQ180P + RQEQ180P	13	36.0	40.0	2	2	28	468	432	396	360	324	288	252	216	180
RQEQ460P	RQEQ140P + RQEQ140P + RQEQ180P	16	45.0	52.0	3	3	34	598	552	506	460	414	368	322	276	230
RQEQ500P	RQEQ140P + RQEQ180P + RQEQ180P	18	50.0	56.0	3	3	39	650	600	550	500	450	400	350	300	250
RQEQ540P	RQEQ180P + RQEQ180P + RQEQ180P	20	54.0	60.0	3	3	43	702	648	594	540	486	400	378	324	270
RQEQ636P	RQEQ212P + RQEQ212P + RQEQ212P	22	63.6	67.2	3	3	47	827	763	699	636	572	508	445	381	318
RQEQ712P	RQEQ140P + RQEQ180P + RQEQ180P + RQEQ212P	24	71.2	78.4	4	4	52	926	854	783	712	640	569	498	427	356
RQEQ744P	RQEQ140P + RQEQ180P + RQEQ212P + RQEQ212P	26	74.4	80.8	4	4	56	967	892	818	744	669	595	520	446	372
RQEQ816P	RQEQ180P + RQEQ212P + RQEQ212P + RQEQ212P	28	81.6	87.2	4	4	60	1,061	979	897	816	734	652	571	489	408
RQEQ848P	RQEQ212P + RQEQ212P + RQEQ212P + RQEQ212P	30	84.8	89.6	4	4	64	1,102	1,017	932	848	763	678	593	508	424

1 Selection procedure Replacement VRV

Replacement VRV - Heat pump	Fixed combinations	Capacity range HP	Cooling capacity kW	Heating capacity kW	N° of outdoors	N° of compressors	N° of connectable indoor units	Indoor unit combination ratio									
								130%	120%	110%	100%	90%	80%	70%	60%	50%	
RQYQ140P	RQYQ140P	5	14.0	16.0	1	1	10	162.5	150	137.5	125	112.5	100	87.5	75	62.5	
RQYQ8P	RQYQ8P	8	22.4	25	1	1	17	260	240	220	200	180	160	140	120	100	
RQYQ10P	RQYQ10P	10	28	31.5	1	2	21	325	300	275	250	225	200	175	150	125	
RQYQ12P	RQYQ12P	12	33.5	37.5	1	2	26	390	360	330	300	270	240	210	180	150	
RQYQ14P	RQYQ14P	14	40	45	1	3	30	455	420	385	350	315	280	245	210	175	
RQYQ16P	RQYQ16P	16	45	50	1	3	34	520	480	440	400	360	320	280	240	200	
RQYQ18P	RQYQ8P + RQYQ10P	18	50.4	56.5	2	3	39	585	540	495	450	405	360	315	270	225	
RQYQ20P	RQYQ8P + RQYQ12P	20	55.9	62.5	2	3	43	650	600	550	500	450	400	350	300	250	
RQYQ22P	RQYQ10P + RQYQ12P	22	61.5	69	2	4	47	715	660	605	550	495	440	385	330	275	
RQYQ24P	RQYQ12P + RQYQ12P	24	67	75	2	4	52	780	720	660	600	540	480	420	360	300	
RQYQ26P	RQYQ10P + RQYQ16P	26	73	81.5	2	5	56	845	780	715	650	585	520	455	390	325	
RQYQ28P	RQYQ12P + RQYQ16P	28	78.5	87.5	2	5	60	910	840	770	700	630	560	490	420	350	
RQYQ30P	RQYQ14P + RQYQ16P	30	85	95	2	6	64	975	900	825	750	675	600	525	450	375	
RQYQ32P	RQYQ16P + RQYQ16P	32	90	100	2	6	64	1,040	960	880	800	720	640	560	480	400	
RQYQ34P	RQYQ10P + RQYQ10P + RQYQ14P	34	96	108	3	6	64	1,105	1,020	935	850	765	680	595	510	425	
RQYQ36P	RQYQ10P + RQYQ12P + RQYQ16P	36	101	113	3	6	64	1,170	1,080	990	900	810	720	630	540	450	
RQYQ38P	RQYQ10P + RQYQ12P + RQYQ16P	38	107	119	3	7	64	1,235	1,140	1,045	950	855	760	665	570	475	
RQYQ40P	RQYQ12P + RQYQ12P + RQYQ16P	40	112	125	3	7	64	1,300	1,200	1,100	1,000	900	800	700	600	500	
RQYQ42P	RQYQ10P + RQYQ16P + RQYQ16P	42	118	132	3	8	64	1,365	1,260	1,155	1,050	945	840	735	630	525	
RQYQ44P	RQYQ12P + RQYQ16P + RQYQ16P	44	124	138	3	8	64	1,430	1,320	1,210	1,100	990	880	770	660	550	
RQYQ46P	RQYQ14P + RQYQ16P + RQYQ16P	46	130	145	3	9	64	1,495	1,380	1,265	1,150	1,035	920	805	690	575	
RQYQ48P	RQYQ16P + RQYQ16P + RQYQ16P	48	135	150	3	9	64	1,560	1,440	1,320	1,200	1,080	960	840	720	600	

Increase capacity

As R-410A systems require smaller diameters it is possible to increase the capacity of the system while still maintaining the main piping. Check in below table what capacity can be installed on the existing piping.

Heat recovery feasibility chart

Type of piping	Capacity	Piping size																									
		Gas										Discharge gas															
		Cap index	Ø12.7	Ø15.9	Ø19.1	Ø22.2	Ø25.4	Ø28.6	Ø34.9	Ø41.3	Ø9.5	Ø12.7	Ø15.9	Ø19.1	Ø22.2	Ø25.4	Ø28.6	Ø34.9	Ø6.4	Ø9.5	Ø12.7	Ø15.9	Ø19.1	Ø22.2			
Between outdoors	RQEQ140P			S								S									S						
	RQEQ180P				S								S									S					
	RQEQ212P					S								S									S				
Main piping	10 HP				S									S								S					
	13 HP					S									S								S				
	16 HP						S									S							S				
	18 HP							S									S							S			
	20 HP								S									S							S		
	22 HP									S									S							S	
	24 HP										S										S						S
	26 HP											S															S
	28 HP												S														S
30 HP													S													S	
From REFNET to REFNET or from REFNET to BS (1)	< 5.6kW	<50	S									S										S					
	5.6-11.2kW	50≤X<100		S									S										S				
	11.2-16kW	100≤X<145			S									S									S				
	16-18kW	145≤X<160				S									S									S			
	18-22.4kW	160≤X<200					S									S								S			
	22.4-33kW	200≤X<295						S									S							S			
	33-37kW	295≤X<330							S									S						S			
	37-47kW	330≤X<420								S									S					S			
	47-53kW	420≤X<480									S									S				S			
	53-71kW	480≤X<640										S									S			S			
	71-78.4kW	640≤X<700											S									S		S			
78.4-101kW	700≤X<900												S									S		S			
>101kW	>900													S									S				
from BS to indoor (2)	20-50 class		S																			S					
	63 class			S																			S				
	80 class				S																			S			
	100-125 class					S																		S			
	200 class						S																	S			
	250 class							S																S			

(1) Piping between refnets depends on total capacity of indoor units connected below this refnet. It can not exceed piping size of upstream side.

(2) Piping from BS to indoor depends on the capacity of the connected indoor unit. It can not exceed piping size of upstream side.

S: Standard size of RQYQ-P series

█: Possible

1 Selection procedure Replacement VRV

Heat pump feasibility chart

1

Type of piping	Capacity	Piping Size														
		Liquid						Gas								
		Ø 6.4	Ø 9.5	Ø 12.7	Ø 15.9	Ø 19.1	Ø 22.2	Ø 12.7	Ø 15.9	Ø 19.1	Ø 22.2	Ø 25.4	Ø 28.6	Ø 34.9	Ø 41.3	Ø 54.1
Main piping (Part A) (Part B) (Part C)	5HP (140)		S								S					
	8HP		S	●							S	●				
	10HP		S	●							S	●				
	12HP			S	●							S	●			
	14HP			S	●							S	●			
	16HP			S	●							S	●			
	18HP				S	●						S	●			
	20HP				S	●						S	●			
	22HP				S	●						S	●			
	24HP				S	●						S	●			
	26HP					S	●						S	●		
	28HP					S	●						S	●		
	30HP					S	●						S	●		
	32HP					S	●						S	●		
	34HP					S	●						S	●		
	36HP					S	●						S	●		
	40HP					S	●						S	●		
42HP					S	●						S	●			
44HP					S	●						S	●			
46HP					S	●						S	●			
48HP					S	●						S	●			
From REFNET to REFNET (*1) (Part D)	< 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) (Part E)	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	●					

- Part A : Piping between Outdoor unit and Refrigerant branch connection
- Part B : Piping between Outdoor unit connection piping kits
- Part C : Piping between Outdoor unit connection piping kit and Outdoor unit
- Part D : Piping between Refrigerant branch kit
- Part E : Piping between Refrigerant branch connection and Indoor unit

- : Piping size of conventional R-22 model
- : Piping size of conventional R-410A model
- S : Standard size of RQYQ-P series

■ : Possible
 ■ : can not be used for piping length of 90m equivalent or more

*1 Piping between REFNETs depends on total capacity index of indoor units connected below each REFNET and 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.



Connection ratio

Ensure connection ratio is below 130%. If the connection ratio is too high the system will not be able to run.

To calculate connection ratio:

For Replacement VRV Heat Recovery RQCEQ280-848P and RQYQ140P

Indoor unit kW index:

Class	20	25	32	40	50	63	80	100	125	200	250
kW index	22	28	36	45	56	71	90	112	140	224	280

1 Selection procedure Replacement VRV

Outdoor unit kW index:

Class	140	180	212
kW index	140	180	212

For Replacement VRV Heat Pump (RQYQ8-48P)

Indoor unit:

Class	20	25	32	40	50	63	80	100	125	200	250
kW index	20	25	31.25	45	50	62.5	80	100	125	200	250

Outdoor unit:

Class	8	10	12	14	16
kW index	200	250	300	350	400

1 - 4 Refrigerant piping

Refrigerant piping can be kept if still in good condition regardless of system history.

However if the original R-22 VRV system has suffered several compressor burnouts, there may be too much acidity in the circuit. In such case the piping should be replaced or cleaned using a 3th party cleaning device.

If Daikin guidelines were followed at the time of installation piping diameters should be suitable for Replacement VRV. If there is any doubt please check feasibility chart in the previous section.

1 - 5 Actual performance data

The individual indoor unit capacity can be calculated as follows:

Individual indoor unit capacity = (outdoor unit capacity at given indoor and outdoor temperature and connection ratio x individual indoor unit capacity index) / total capacity index

Then, correct the indoor unit capacity according to the piping length and integrated heating capacity coefficient (if the selection is made in heating). If the corrected capacity is smaller than the load, the size of the indoor unit needs to be increased and the selection procedure needs to be repeated.

1 - 6 Selection example based on cooling load

Given

- Cooling: indoor 20°CWB; outdoor 33°CDB
- Indoor & outdoor unit to be replaced
- Cooling load:

Room	A	B	C	D	E	F	G	H
Load [kW]	2.9	2.7	2.5	4.3	4.0	4.0	3.9	4.2

Indoor unit selection

Select indoor type (duct, cassette, floor standing,...). In this example we choose roundflow cassette (FXFQ-P9). Select indoor unit size using indoor capacity tables at given conditions.

Room	A	B	C	D	E	F	G	H
Load [kW]	2.9	2.7	2.5	4.3	4.0	4.0	3.9	4.2
Unit size	25	25	25	40	40	40	40	40
Capacity	3.0	3.0	3.0	4.8	4.8	4.8	4.8	4.8

1 Selection procedure Replacement VRV

Outdoor unit selection

Indoor unit total capacity index: 3×28 (FXFQ25P9) + 5×45 (FXFQ40P9) = 309

Outdoor unit: $2 \times$ REYQ140P = 280

Connection ratio: $309/280 = 110\%$.

1

BS-box

The old BS-boxes are replaced by new BSVQ-boxes.

Refrigerant piping

As we replace a 10 HP R-22 system with a 10 HP Replacement VRV system refrigerant piping diameters are ok.

Correction factors

Capacity should be corrected for piping length and defrost factor (only in heating). These correction factors can be found in the next chapter. For this example, we assume a correction factor of 1.

Actual performance data

Outdoor unit cooling capacity at 110%: 29.4 kW

Individual capacity FXFQ25P9: $(28 \times 29.4)/280 = 2.94$ kW

Individual capacity FXFQ40P9: $(45 \times 29.4)/280 = 4.7$ kW

Room	A	B	C	D	E	F	G	H
Load [kW]	3	2.7	2.5	4.3	4.0	4.0	3.9	4.2
Unit size	25	25	25	40	40	40	40	40
Capacity	2.94	2.94	2.94	4.7	4.7	4.7	4.7	4.7

In room A the delivered capacity is lower than the load, thus the indoor unit needs to be increased from 25 class to 32 class.

For the new connection ratio, the actual capacity needs to be calculated:

Indoor unit total capacity index: 2×28 (FXFQ25P9) + 1×36 (FXFQ32P9) + 5×45 (FXFQ40P9) = 317

Outdoor unit: $2 \times$ REYQ140P = 280

Connection ratio: $317/280 = 113\%$.

Outdoor unit capacity at 113% can be calculated by interpolating between the capacity at 110% and 120% which are given in the capacity tables:

- RREQ280P at 110% at design conditions: 29.4 kW
- RREQ280P at 120% at design conditions: 29.9 kW

Interpolate:

Connection ratio	110%	113%	120%
Cooling capacity	29.4	?	29.9
Index	308	316	336

$$29.4 + (29.9 - 29.4) / (336 - 308) \times (316 - 308) = 29.54 \text{ kW}$$

Individual capacity FXFQ25P9: $(28 \times 29.54)/280 = 2.95$ kW

Individual capacity FXFQ32P9: $(36 \times 29.54)/280 = 3.79$ kW

Individual capacity FXFQ40P9: $(45 \times 29.54)/280 = 4.75$ kW

Room	A	B	C	D	E	F	G	H
Load [kW]	3	2.7	2.5	4.3	4.0	4.0	3.9	4.2
Unit size	32	25	25	40	40	40	40	40
Capacity	3.79	2.95	2.95	4.75	4.75	4.75	4.75	4.75

Now in all rooms the selected indoor unit delivers more than the required capacity, therefore the correct unit was selected.

1 Selection procedure Replacement VRV

1 - 7 Additional precautions when replacing a non-Daikin system

Check if the installed refrigerant piping can be re-used. Check wall thickness, diameter, refrigerant branch pipes, piping lengths, refrigerant oil and insulation according to following minimum requirements.

Minimum wall thickness

The existing piping should have a design pressure of 3,3 MPa. There should be no corrosion. Minimum wall thickness should follow below table:

Nominal diameter of pipe	O material		1/2H, H material	
	Minimum wall thickness	Daikin indication for R-22 VRV	Minimum wall thickness	Daikin indication for R-22 VRV
ø 6.4	0.4	0.8	-	-
ø 9.5	0.5	0.8	(0.3)	-
ø 12.7	0.7	0.9	(0.4)	-
ø 15.9	0.9	1.0	(0.5)	-
ø 19.1	1.0	1.0	(0.6)	-
ø 22.2	1.15	1.2	0.6	1.0
ø 25.4	(1.4)	-	0.7	1.2
ø 28.6	(1.5)	-	0.8	1.2
ø 31.8	(1.7)	-	0.9	1.4
ø 38.1	(2.0)	-	1.1	1.4
ø 44.5	(2.4)	-	1.2	1.6

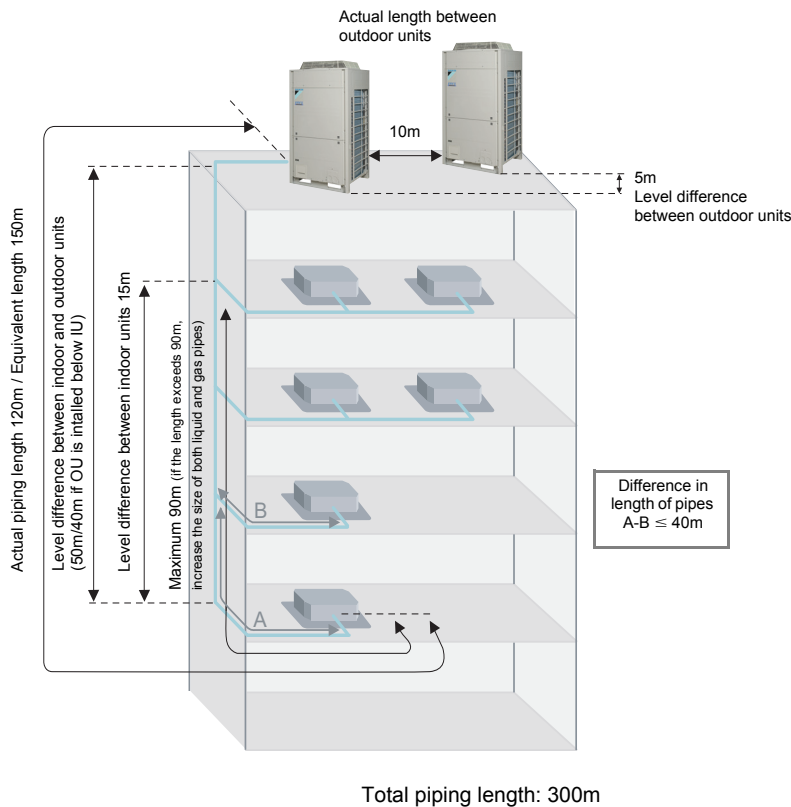
Table: minimum wall thickness of refrigerant piping

Refrigerant branch pipes

Refrigerant branch pipes can be re-used if they can withstand a pressure of 3.3 MPa. Y-refnets, T-refnets and headers can be re-used. Special items that implement decompression (for example: oil trap) are not allowed.

Maximum piping lengths

Check if maximum piping lengths are respected.



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Piping diameters

Check if existing piping diameters are acceptable for the required capacity.

Heat recovery feasibility chart

Type of piping	Capacity	Piping size																						
		Cap index	Gas								Discharge gas								Liquid					
			Ø12.7	Ø15.9	Ø19.1	Ø22.2	Ø25.4	Ø28.6	Ø34.9	Ø41.3	Ø9.5	Ø12.7	Ø15.9	Ø19.1	Ø22.2	Ø25.4	Ø28.6	Ø34.9	Ø6.4	Ø9.5	Ø12.7	Ø15.9	Ø19.1	Ø22.2
Between outdoors	RQE0140P		S								S								S					
	RQE0180P			S							S	S							S					
	RQE0212P			S							S								S					
Main piping	10 HP				S							S							S					
	13 HP					S						S							S	S				
	16 HP						S							S					S	S				
	18 HP							S							S				S		S			
	20 HP								S							S			S		S			
	22 HP									S						S			S		S			
	24 HP										S						S		S		S			
	26 HP											S						S				S		
	28 HP												S					S				S		
30 HP																	S				S			
From REFNET to REFNET or from REFNET to BS (1)	< 5.6kW	<50	S								S								S					
	5.6-11.2kW	50≦X<100		S							S								S	S				
	11.2-16kW	100≦X<145		S							S								S	S				
	16-18kW	145≦X<160			S							S							S	S				
	18-22.4kW	160≦X<200			S								S						S	S				
	22.4-33kW	200≦X<295				S							S						S	S				
	33-37kW	295≦X<330					S							S					S	S				
	37-47kW	330≦X<420						S							S				S	S				
	47-53kW	420≦X<480							S							S			S	S				
	53-71kW	480≦X<640								S							S		S	S				
71-78.4kW	640≦X<700									S							S		S		S			
78.4-101kW	700≦X<900										S							S	S		S			
>101kW	>900																	S	S		S			
from BS to indoor (2)	20-50 class		S																S					
	63 class			S																S				
	80 class			S																S				
	100-125 class			S																S				
	200 class				S															S				
250 class					S														S					

(1) Piping between refnets depends on total capacity of indoor units connected below this refnet. It can not exceed piping size of upstream side.

(2) Piping from BS to indoor depends on the capacity of the connected indoor unit. It can not exceed piping size of upstream side.

S : Standard size of RQYQ-P series

■ : Possible

1 Selection procedure Replacement VRV

Heat pump feasibility chart

Type of piping	Capacity	Piping Size															
		Liquid						Gas									
		Ø 6.4	Ø 9.5	Ø 12.7	Ø 15.9	Ø 19.1	Ø 22.2	Ø 12.7	Ø 15.9	Ø 19.1	Ø 22.2	Ø 25.4	Ø 28.6	Ø 34.9	Ø 41.3	Ø 54.1	
Main piping (Part A) (Part B) (Part C)	5HP (140)		S						S								
	8HP		S	●						S							
	10HP		S	●							S						
	12HP			S	●							S					
	14HP			S	●							S	●				
	16HP			S	●							S	●				
	18HP				S	●						S	●				
	20HP				S	●						S	●				
	22HP				S	●						S	●				
	24HP				S	●						S	●				
	26HP					S	●						S	●			
	28HP					S	●						S	●			
	30HP					S	●						S	●			
	32HP					S	●						S	●			
	34HP					S	●						S	●			
	36HP					S	●							S	●		
	40HP					S	●							S	●		
	42HP					S	●							S	●		
44HP					S	●							S	●			
46HP					S	●							S	●			
48HP					S	●							S	●			
From REFNET to REFNET (*1) (Part D)	< 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) (Part E)	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	●						

- Part A: Piping between Outdoor unit and Refrigerant branch connection
- Part B: Piping between Outdoor unit connection piping kits
- Part C: Piping between Outdoor unit connection piping kit and Outdoor unit
- Part D: Piping between Refrigerant branch kit
- Part E: Piping between Refrigerant branch connection and Indoor unit

- : Piping size of conventional R-22 model
- : Piping size of conventional R-410A model
- S : Standard size of RQYQ-P series

■ : Possible
 ■ : can not be used for piping length of 90m equivalent or more

*1 Piping between REFNETs depends on total capacity index of indoor units connected below each REFNET and 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.

Insulation of refrigerant piping:

Both gas and liquid piping should be insulated.

Refrigerant oil:

If one of the following oils was used the refrigerant piping can be re-used:

- Suniso
- MS
- HAB
- Barrel Freeze
- Ferreol
- Ethereal
- Ester



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