

Engineering Data

RXQ6-48A(N)RYFK

Cooling Only 50/60 Hz

R-410A



VRV X

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1. Basic Information

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1. Lineup

VRV X Series Standard Type

Model name									Power supply
RXQ	6AR	8AR	10AR	12AR	14AR	16AR	18ANR	20ANR	YFK
	22ANR	24ANR	26ANR	28ANR	30ANR	32ANR	34ANR	36ANR	
	38ANR	40ANR	42ANR	44ANR	46ANR	48ANR	—	—	

YFK: 3 phase, 380-415 V, 50/60 Hz

6, 8 HP	10, 12, 14, 16 HP
 RXQ6ARYFK RXQ8ARYFK	 RXQ10ARYFK RXQ12ARYFK RXQ14ARYFK RXQ16ARYFK
18, 20 HP	22, 24, 26, 28, 30, 32 HP
 RXQ18ANRYFK RXQ20ANRYFK	 RXQ22ANRYFK RXQ28ANRYFK RXQ24ANRYFK RXQ30ANRYFK RXQ26ANRYFK RXQ32ANRYFK
34, 36, 38, 40, 42, 44, 46, 48 HP	
 RXQ34ANRYFK RXQ36ANRYFK RXQ38ANRYFK RXQ40ANRYFK RXQ42ANRYFK RXQ44ANRYFK RXQ46ANRYFK RXQ48ANRYFK	

2. Combination

VRV X Series Standard Type

Capacity range	6 HP	8 HP	10 HP	12 HP	14 HP	16 HP	18 HP	20 HP
Model name	RXQ6AR	RXQ8AR	RXQ10AR	RXQ12AR	RXQ14AR	RXQ16AR	RXQ18ANR	RXQ20ANR
Outdoor unit 1	RXQ6AR	RXQ8AR	RXQ10AR	RXQ12AR	RXQ14AR	RXQ16AR	RXQ6AR	RXQ8AR
Outdoor unit 2	—	—	—	—	—	—	RXQ12AR	RXQ12AR
Outdoor unit 3	—	—	—	—	—	—	—	—

Capacity range	22 HP	24 HP	26 HP	28 HP	30 HP	32 HP	34 HP	36 HP
Model name	RXQ22ANR	RXQ24ANR	RXQ26ANR	RXQ28ANR	RXQ30ANR	RXQ32ANR	RXQ34ANR	RXQ36ANR
Outdoor unit 1	RXQ10AR	RXQ12AR	RXQ10AR	RXQ12AR	RXQ14AR	RXQ16AR	RXQ10AR	RXQ12AR
Outdoor unit 2	RXQ12AR	RXQ12AR	RXQ16AR	RXQ16AR	RXQ16AR	RXQ16AR	RXQ12AR	RXQ12AR
Outdoor unit 3	—	—	—	—	—	—	RXQ12AR	RXQ12AR

Capacity range	38 HP	40 HP	42 HP	44 HP	46 HP	48 HP
Model name	RXQ38ANR	RXQ40ANR	RXQ42ANR	RXQ44ANR	RXQ46ANR	RXQ48ANR
Outdoor unit 1	RXQ10AR	RXQ12AR	RXQ12AR	RXQ12AR	RXQ14AR	RXQ16AR
Outdoor unit 2	RXQ12AR	RXQ12AR	RXQ14AR	RXQ16AR	RXQ16AR	RXQ16AR
Outdoor unit 3	RXQ16AR	RXQ16AR	RXQ16AR	RXQ16AR	RXQ16AR	RXQ16AR

System capacity		Number of units	Module						Outdoor unit multi connection piping kit ★1
kW	HP		6	8	10	12	14	16	
16.0	6	1	●						—
22.4	8	1		●					
28.0	10	1			●				
33.5	12	1				●			
40.0	14	1					●		
45.0	16	1						●	
50.4	18	2	●			●			BHFP22P1006
56.0	20	2		●		●			
61.5	22	2			●	●			
68.0	24	2				●●			
73.0	26	2			●			●	
78.5	28	2				●		●	
85.0	30	2					●	●	
90.0	32	2						●●	
96.0	34	3			●	●●			BHFP22P1516
101.0	36	3				●●●			
107.0	38	3			●	●		●	
113.0	40	3				●●		●	
118.5	42	3				●	●	●	
125.0	44	3				●		●●	
130.0	46	3					●	●●	
135.0	48	3						●●●	

Note:

★1. For multiple connection, the outdoor unit multi connection piping kit (separately sold) is required.

3. Capacity Range

3.1 For VRV Indoor Units Only

3.1.1 Connection Ratio

Connection ratio =	$\frac{\text{Total capacity index of the indoor units}}{\text{Capacity index of the outdoor units}}$
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Type	Min. connection ratio	Max. connection ratio
		Types of connected indoor units
		VRV indoor units
Single outdoor units	50%	130%
Double outdoor units		
Triple outdoor units		

3.1.2 Outdoor Unit Combinations

VRV X Series Standard Type

kW	HP	Capacity index	Model name	Combination	Total capacity index of connectable indoor units *1	Maximum number of connectable indoor units
16.0	6	150	RXQ6AR	RXQ6AR	75 to 195	9
22.4	8	200	RXQ8AR	RXQ8AR	100 to 260	13
28.0	10	250	RXQ10AR	RXQ10AR	125 to 325	16
33.5	12	300	RXQ12AR	RXQ12AR	150 to 390	19
40.0	14	350	RXQ14AR	RXQ14AR	175 to 455	22
45.0	16	400	RXQ16AR	RXQ16AR	200 to 520	26
50.0	18	450	RXQ18ANR	RXQ6AR + RXQ12AR	225 to 585	29
56.0	20	500	RXQ20ANR	RXQ8AR + RXQ12AR	250 to 650	32
61.5	22	550	RXQ22ANR	RXQ10AR + RXQ12AR	275 to 715	35
67.0	24	600	RXQ24ANR	RXQ12AR × 2	300 to 780	39
73.5	26	650	RXQ26ANR	RXQ10AR + RXQ16AR	325 to 845	42
78.5	28	700	RXQ28ANR	RXQ12AR + RXQ16AR	350 to 910	45
83.5	30	750	RXQ30ANR	RXQ14AR + RXQ16AR	375 to 975	48
90.0	32	800	RXQ32ANR	RXQ16AR × 2	400 to 1,040	52
95.0	34	850	RXQ34ANR	RXQ10AR + RXQ12AR × 2	425 to 1,105	55
100	36	900	RXQ36ANR	RXQ12AR × 3	450 to 1,170	58
106	38	950	RXQ38ANR	RXQ10AR + RXQ12AR + RXQ16AR	475 to 1,235	61
112	40	1,000	RXQ40ANR	RXQ12AR × 2 + RXQ16AR	500 to 1,300	64
117	42	1,050	RXQ42ANR	RXQ12AR + RXQ14AR + RXQ16AR	525 to 1,365	
123	44	1,100	RXQ44ANR	RXQ12AR + RXQ16AR × 2	550 to 1,430	
130	46	1,150	RXQ46ANR	RXQ14AR + RXQ16AR × 2	575 to 1,495	
135	48	1,200	RXQ48ANR	RXQ16AR × 3	600 to 1,560	

Note:

*1. When outdoor-air processing units (FXMQ-MF) and standard indoor units are connected, the total connection capacity of the outdoor-air processing units (FXMQ-MF) must not exceed 30% of the capacity index of the outdoor units. And the connection ratio must not exceed 100%.

Because connection is possible depending on conditions even when the capacity index of FXMQ-MF exceeds 30% of the capacity index of the outdoor units, contact your local distributor.

4. CSPF



Cooling Seasonal Performance Factor



Nominal Efficiency vs. Seasonal Efficiency in line with real life performance



Currently, the energy efficiency of cooling devices is measured in artificial and standardized conditions. For air conditioners, this is done at a constant temperature of 46 °C or 35 °C and at full cooling capacity. This results in T1 & T3 energy efficiency (EER), which is representing only two points to conclude on Energy performance.

In other markets, like in the US and Europe, seasonal performance is measured with IPLV, SEER or ESEER calculations based on real-life

conditions. However, these calculation methods have not been adopted for high Ambient or hot climates. In order to correct this situation, a more realistic calculation method called Cooling Seasonal Performance Factor for Hot Climate $CSPF_{T3}$ has been developed by the ISO Refrigeration and Air-Conditioning Subcommittee (SC6) for the testing and rating of air conditioners and heat pumps. This is the standard ISO 16358 -1 Amendment 1 issued in 2019 for the hot T3 climate zones.

The implementation of the Seasonal Efficiency calculation reflects more realistic energy efficiency value through the entire cooling season at hot climate conditions compared to currently used EER value.

The calculation follows the below considerations:

- Use of a high ambient climate weather bin for cooling instead of one nominal temperature
- Considering operation at partial capacity instead of full capacity.

The adoption of the $CSPF_{T3}$ calculation method will result in a better estimation of the equipment's real-life performance over a year.

What is $CSPF_{T3}$?

(Cooling Seasonal Performance Factor for Hot Climate $CSPF_{T3}$) is the testing and rating of air conditioners as per the ISO 16358 -1 Amendment 1 issued in 2019 for T3 hot climate zones and takes into consideration the bin hours reflecting high ambient conditions. Regulatory bodies like ESMA and SASO are seriously considering the adoption of this as a standard in the region.

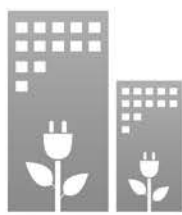
How is $CSPF_{T3}$ expressed?

- It is expressed as the $CSPF_{T3}$ value (**Cooling Seasonal Performance Factor for Hot Climate $CSPF_{T3}$**)
- It is defined as the ratio of the total annual amount of heat that the equipment can remove from the indoor air when operating for cooling in active mode to the total annual amount of energy consumed by the equipment during the same period.

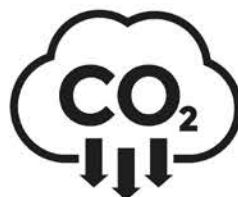
$$CSPF_{T3} = \frac{\text{Cooling Seasonal Total Load @ T3 ISO weather bin}}{\text{Cooling Seasonal Energy Consumption @ T3 ISO weather bin}}$$

Benefits of $CSPF_{T3}$

The implementation of seasonal efficiency will provide end users with a fair comparison of different equipment based on realistic year-round efficiency which will lead to:



Reduced energy consumption



Reduced CO2 emission

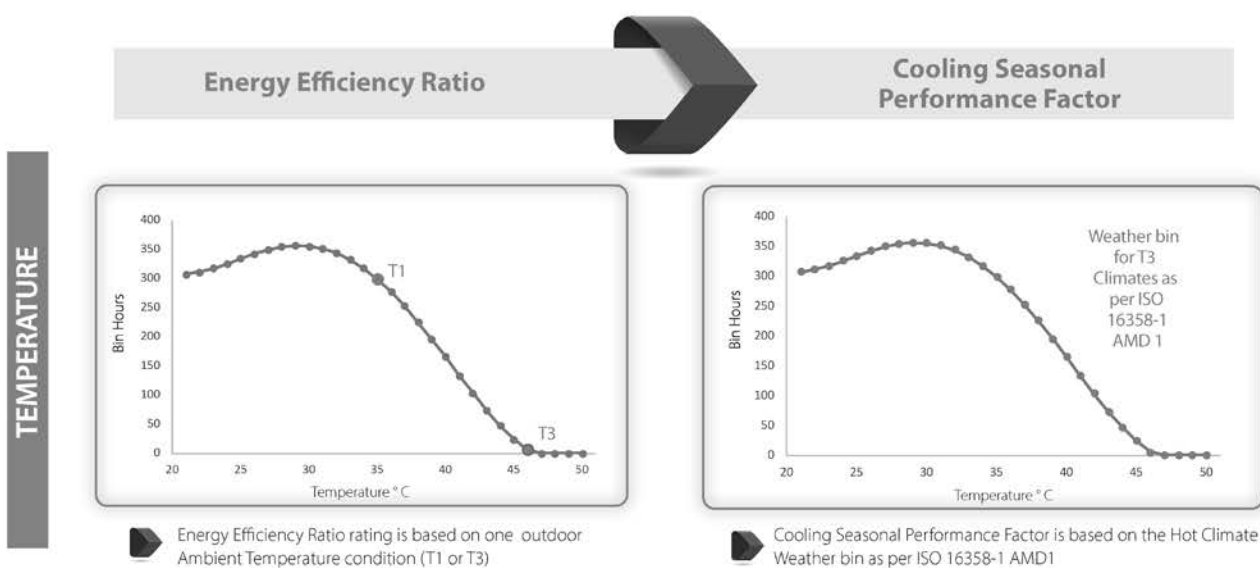


Reduced electricity bills

Pioneering in innovation and environmental responsibility

For Daikin, seasonal efficiency brings together two core ambitions: pushing for innovation and reducing the environmental footprint of our products. Being the first in the industry to design equipment based on optimal seasonal efficiency values, Daikin is once again pioneering high-performance cooling products that lower the impact on the environment and on your wallet.

Benefits of Seasonal Efficiency vs. Nominal Efficiency



EFFICIENCY

$$EER = \frac{\text{Cooling Capacity @ T1 or T3}}{\text{Power Input @ T1 or T3}}$$

Nominal efficiency gives an indication on how efficient an air conditioner operates at nominal conditions. 100% capacity performance is used to measure EER

$$CSPF_{T3} = \frac{\text{Cooling Seasonal Total Load @ T3 ISO Weather bin}}{\text{Cooling Seasonal Energy Consumption @ T3 ISO Weather bin}}$$

CSPF_{T3} gives an indication on how efficient an air conditioner operates over an entire cooling season. Variable or seasonal performance close to real life is used and not 100% capacity performance.

For example, 10 HP Daikin VRV-X Unit (RXQ10ARYFK) can be evaluated using below mentioned efficiencies:

T3 EER : 9.47 (Btu/h)/W
2.77 W/W

CSPF_{T3} : 16.9 (Btu/h)/W
4.94 W/W

When the new ISO standard for hot climate was published, Daikin has resolutely chosen for early implementation of this new legislation and started testing all products for seasonal efficiency. This commitment to pioneering the implementation of seasonal efficiency is a practice we observe every day.

Today, Daikin leads the way towards more efficient and cost-effective comfort solutions. All Daikin products - residential, commercial, as well as industrial - are seasonal-efficient, reducing energy and costs the smart way.

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1. Specifications

1.1 Cooling Only 50/60 Hz VRV X Series (RXQ-A(N)R)

Model			RXQ6ARYFK	RXQ8ARYFK	
Cooling capacity at T1 ★1	Capacity	kW	16.0	22.4	
	Capacity	Btu/h	54,600	76,450	
	EER	kW/kW	3.56	3.39	
	EER	Btu/h/W	12.13	11.76	
	PI	kW	4.5	6.5	
Cooling capacity at T3 ★1	Capacity	kW	14.7	18.8	
	Capacity	Btu/h	50,000	64,000	
	EER	kW/kW	2.87	2.88	
	EER	Btu/h/W	9.80	9.85	
	PI	kW	5.1	6.5	
Cooling capacity at T4 ★1	Capacity	kW	11.3	16.0	
	Capacity	Btu/h	38,600	54,600	
	EER	kW/kW	2.69	2.71	
	EER	Btu/h/W	9.19	9.25	
	PI	kW	4.2	5.9	
CSPF at T3 ★3			4.76	4.55	
Power Factor at T3			0.9	0.9	
Allowed indoor capacity index connection	Norn.		150	200	
	Min.		75	100	
	Max.		195	260	
Dimensions (H × W × D)		mm	1,657 × 930 × 765	1,657 × 930 × 765	
Packing dimensions (H × W × D)		mm	1,830 × 980 × 810	1,830 × 980 × 810	
Mass	Unit	kg	165	175	
	Packed unit	kg	190	200	
Sound pressure level ★2		dB(A)	56	57	
Heat exchanger	Type		Cross fin coil	Cross fin coil	
Fan	Type		Propeller	Propeller	
	Discharge direction		Vertical	Vertical	
	Air flow Rate		m³/min	178	
	Motor	Quantity		1	1
		Model		Brushless DC	Brushless DC
		Output/pcs	W	550	550
Compressor	Motor	Quantity	1	1	
		Model	Inverter	Inverter	
		Type	Hermetically sealed scroll type	Hermetically sealed scroll type	
Refrigerant	Refrigerant name		R410A	R410A	
	Charge	kg	5.9	7.3	
Piping connections	Liquid	Type	Brazing connection	Brazing connection	
		Diameter (OD)	mm	9.5	9.5
	Gas	Type	Brazing connection	Brazing connection	
		Diameter (OD)	mm	19.1	19.1
Safety devices			High pressure switch, Fan driver overload protector, Overcurrent relay, Inverter overload protector, Over/under voltage protection PCB	High pressure switch, Fan driver overload protector, Overcurrent relay, Inverter overload protector, Over/under voltage protection PCB	
Standard accessories			Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps	
Drawing No.	Specifications		C: 3D124543B	C: 3D124543B	
	Sound level		4D124350	4D124349	

Note:

★1. The data are based on the conditions shown in the table below.

Condition	Indoor DB (°C)	Indoor WB (°C)	Outdoor DB (°C)	Main standard	Reference standard
T1	27.0	19.0	35.0	Saudi SASO 2874:2016	ISO 15042:2011
T3	29.0	19.0	46.0	UAE.S 5010-5:2016	ISO 15042:2011
T4	26.6	19.4	48.0	Kuwait 2019 (MEW R-6)	AHRI-1230

★2. 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.

★3. For calculating CSPF value, testing data of following tests were considered:
(Refer iso 16358-1:2013 for further details)

4. For detailed contents, see installation/operational manual.

Required tests	Optional tests
FULL LOAD AT T1	MINIMUM LOAD AT T1
HALF LOAD AT T1	HALF LOAD AT T3
FULL LOAD AT T3	MINIMUM LOAD AT 29°C

Model			RXQ10ARYFK	RXQ12ARYFK	
Cooling capacity at T1 ★1	Capacity	kW	28.0	33.5	
	Capacity	Btu/h	95,550	114,350	
	EER	kW/kW	3.54	3.53	
	EER	Btu/h/W	12.09	12.04	
	PI	kW	7.9	9.5	
Cooling capacity at T3 ★1	Capacity	kW	26.1	27.1	
	Capacity	Btu/h	89,000	92,500	
	EER	kW/kW	2.77	2.61	
	EER	Btu/h/W	9.47	8.89	
	PI	kW	9.4	10.4	
Cooling capacity at T4 ★1	Capacity	kW	19.0	24.5	
	Capacity	Btu/h	64,900	83,600	
	EER	kW/kW	2.68	2.69	
	EER	Btu/h/W	9.14	9.19	
	PI	kW	7.1	9.1	
CSPF at T3 ★3			4.94	5.51	
Power Factor at T3			0.9	0.9	
Allowed indoor capacity index connection	Norn.		250	300	
	Min.		125	150	
	Max.		325	390	
Dimensions (H × W × D)		mm	1,657 × 1,240 × 765	1,657 × 1,240 × 765	
Packing dimensions (H × W × D)		mm	1,830 × 1,290 × 810	1,830 × 1,290 × 810	
Mass	Unit	kg	220	220	
	Packed unit	kg	250	250	
Sound pressure level ★2		dB(A)	60	60	
Heat exchanger	Type		Cross fin coil	Cross fin coil	
Fan	Type		Propeller	Propeller	
	Discharge direction		Vertical	Vertical	
	Air flow Rate		m³/min	257	
	Motor	Quantity		2	2
		Model		Brushless DC	Brushless DC
		Output/pcs	W	750	750
Compressor	Motor	Quantity	1	1	
		Model	Inverter	Inverter	
		Type	Hermetically sealed scroll type	Hermetically sealed scroll type	
Refrigerant	Refrigerant name		R410A	R410A	
	Charge	kg	9	9.3	
Piping connections	Liquid	Type	Brazing connection	Brazing connection	
		Diameter (OD)	mm	9.5	12.7
	Gas	Type	Brazing connection	Brazing connection	
		Diameter (OD)	mm	22.2	28.6
Safety devices			High pressure switch, Fan driver overload protector, Overcurrent relay, Inverter overload protector, Over/under voltage protection PCB	High pressure switch, Fan driver overload protector, Overcurrent relay, Inverter overload protector, Over/under voltage protection PCB	
Standard accessories			Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps	
Drawing No.	Specifications		C: 3D124543B	C: 3D124543B	
	Sound level		4D124353	4D124353	

Note:

★1. The data are based on the conditions shown in the table below.

Condition	Indoor DB (°C)	Indoor WB (°C)	Outdoor DB (°C)	Main standard	Reference standard
T1	27.0	19.0	35.0	Saudi SASO 2874:2016	ISO 15042:2011
T3	29.0	19.0	46.0	UAE.S 5010-5:2016	ISO 15042:2011
T4	26.6	19.4	48.0	Kuwait 2019 (MEW R-6)	AHRI-1230

★2. 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.

★3. For calculating CSPF value, testing data of following tests were considered:
(Refer iso 16358-1:2013 for further details)

4. For detailed contents, see installation/operational manual.

Required tests	Optional tests
FULL LOAD AT T1	MINIMUM LOAD AT T1
HALF LOAD AT T1	HALF LOAD AT T3
FULL LOAD AT T3	MINIMUM LOAD AT 29°C

Model			RXQ14ARYFK	RXQ16ARYFK
Cooling capacity at T1 ★1	Capacity	kW	40.0	45.0
	Capacity	Btu/h	136,500	153,550
	EER	kW/kW	3.54	3.42
	EER	Btu/h/W	12.08	11.68
	PI	kW	11.3	13.2
Cooling capacity at T3 ★1	Capacity	kW	34.1	34.6
	Capacity	Btu/h	116,400	118,000
	EER	kW/kW	2.73	2.77
	EER	Btu/h/W	9.31	9.44
	PI	kW	12.5	12.5
Cooling capacity at T4 ★1	Capacity	kW	17.8	22.0
	Capacity	Btu/h	60,900	75,000
	EER	kW/kW	2.70	2.96
	EER	Btu/h/W	9.23	10.14
	PI	kW	6.6	7.4
CSPF at T3 ★3			5.37	4.74
Power Factor at T3			0.9	0.9
Allowed indoor capacity index connection	Norn.		350	400
	Min.		175	200
	Max.		455	520
Dimensions (H × W × D)		mm	1,657 × 1,240 × 765	1,657 × 1,240 × 765
Packing dimensions (H × W × D)		mm	1,830 × 1,290 × 810	1,830 × 1,290 × 810
Mass	Unit	kg	285	285
	Packed unit	kg	315	315
Sound pressure level ★2		dB(A)	65	65
Heat exchanger	Type		Cross fin coil	Cross fin coil
Fan	Type		Propeller	Propeller
	Discharge direction		Vertical	Vertical
	Air flow Rate	m³/min	297	297
	Motor	Quantity	2	2
		Model	Brushless DC	Brushless DC
		Output/pcs	W	750
Compressor	Motor	Quantity	2	2
		Model	Inverter	Inverter
		Type	Hermetically sealed scroll type	Hermetically sealed scroll type
Refrigerant	Refrigerant name		R410A	R410A
	Charge	kg	11.7	11.8
Piping connections	Liquid	Type	Brazing connection	Brazing connection
		Diameter (OD)	mm	12.7
	Gas	Type	Brazing connection	Brazing connection
		Diameter (OD)	mm	28.6
Safety devices			High pressure switch, Fan driver overload protector, Overcurrent relay, Inverter overload protector, Over/under voltage protection PCB	High pressure switch, Fan driver overload protector, Overcurrent relay, Inverter overload protector, Over/under voltage protection PCB
Standard accessories			Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps
Drawing No.	Specifications		C: 3D124543B	C: 3D124543B
	Sound level		4D124352	4D124352

Note:

★1. The data are based on the conditions shown in the table below.

Condition	Indoor DB (°C)	Indoor WB (°C)	Outdoor DB (°C)	Main standard	Reference standard
T1	27.0	19.0	35.0	Saudi SASO 2874:2016	ISO 15042:2011
T3	29.0	19.0	46.0	UAE.S 5010-5:2016	ISO 15042:2011
T4	26.6	19.4	48.0	Kuwait 2019 (MEW R-6)	AHRI-1230

★2. 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.

★3. For calculating CSPF value, testing data of following tests were considered:

(Refer iso 16358-1:2013 for further details)

4. For detailed contents, see installation/operational manual.

Required tests	Optional tests
FULL LOAD AT T1	MINIMUM LOAD AT T1
HALF LOAD AT T1	HALF LOAD AT T3
FULL LOAD AT T3	MINIMUM LOAD AT 29°C

Model Name (Combination Unit)			RXQ18ANRYFK		RXQ20ANRYFK		
Model Name (Independent Unit)			RXQ6ARYFK+RXQ12ARYFK		RXQ8ARYFK+RXQ12ARYFK		
Cooling capacity at T1 ★1	Capacity	kW	49.5		55.9		
	Capacity	Btu/h	168,950		190,800		
	EER	kW/kW	3.54		3.47		
	EER	Btu/h/W	12.07		11.93		
	PI	kW	14		16		
Cooling capacity at T3 ★1	Capacity	kW	41.8		45.9		
	Capacity	Btu/h	142,500		156,500		
	EER	kW/kW	2.70		2.72		
	EER	Btu/h/W	9.19		9.26		
	PI	kW	16		17		
Cooling capacity at T4 ★1	Capacity	kW	35.8		40.5		
	Capacity	Btu/h	122,200		138,200		
	EER	kW/kW	2.69		2.70		
	EER	Btu/h/W	9.19		9.21		
	PI	kW	13		15		
CSPF at T3 ★3			5.25		5.07		
Power Factor at T3			0.9		0.9		
Allowed indoor capacity index connection	Norn.		450		500		
	Min.		225		250		
	Max.		585		650		
Dimensions (H×W×D)		mm	(1,657×930×765)+(1,657×1,240×765)		(1,657×930×765)+(1,657×1,240×765)		
Packing dimensions (H×W×D)		mm	(1,830×980×810)+(1,830×1,290×810)		(1,830×980×810)+(1,830×1,290×810)		
Mass	Unit	kg	165+220		175+220		
	Packed unit	kg	190+250		200+250		
Sound pressure level ★2		dB(A)	61		62		
Heat exchanger	Type		Cross fin coil		Cross fin coil		
Fan	Type		Propeller		Propeller		
	Discharge direction		Vertical		Vertical		
	Air flow Rate		m³/min	—		—	
	Motor	Quantity		1+2		1+2	
		Model		Brushless DC		Brushless DC	
		Output/pcs	kW	(0.55×1)+(0.75×2)		(0.55×1)+(0.75×2)	
Compressor	Motor	Quantity		1+1		1+1	
		Model		Inverter		Inverter	
		Type		Hermetically sealed scroll type		Hermetically sealed scroll type	
Refrigerant	Refrigerant name		R410A		R410A		
	Charge	kg	5.9+9.3		7.3+9.3		
Piping connections	Liquid	Type		Brazing connection		Brazing connection	
		Diameter (OD)		mm	φ15.9		φ15.9
	Gas	Type		Brazing connection		Brazing connection	
		Diameter (OD)		mm	φ28.6		φ28.6
Safety devices			High pressure switch, Fan driver overload protector, Overcurrent relay, Inverter overload protector, Over/under voltage protection PCB		High pressure switch, Fan driver overload protector, Overcurrent relay, Inverter overload protector, Over/under voltage protection PCB		
Standard accessories			Installation manual, Operation manual, Connection pipes, Clamps		Installation manual, Operation manual, Connection pipes, Clamps		
Drawing No.	Specifications		—		—		
	Sound level		—		—		

Note:

★1. The data are based on the conditions shown in the table below.

Condition	Indoor DB (°C)	Indoor WB (°C)	Outdoor DB (°C)	Main standard	Reference standard
T1	27.0	19.0	35.0	Saudi SASO 2874:2016	ISO 15042:2011
T3	29.0	19.0	46.0	UAE.S 5010-5:2016	ISO 15042:2011
T4	26.6	19.4	48.0	Kuwait 2019 (MEW R-6)	AHRI-1230

★2. 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.

★3. For calculating CSPF value, testing data of following tests were considered:
(Refer iso 16358-1:2013 for further details)

4. For detailed contents, see installation/operational manual.

Required tests	Optional tests
FULL LOAD AT T1	MINIMUM LOAD AT T1
HALF LOAD AT T1	HALF LOAD AT T3
FULL LOAD AT T3	MINIMUM LOAD AT 29°C

Model Name (Combination Unit)			RXQ22ANRYFK		RXQ24ANRYFK		
Model Name (Independent Unit)			RXQ10RYFK+RXQ12ARYFK		RXQ12ARYFK+RXQ12ARYFK		
Cooling capacity at T1 ★1	Capacity	kW	61.5		67.0		
	Capacity	Btu/h	209,900		228,700		
	EER	kW/kW	3.53		3.53		
	EER	Btu/h/W	12.06		12.04		
	PI	kW	17		19		
Cooling capacity at T3 ★1	Capacity	kW	53.2		54.2		
	Capacity	Btu/h	181,500		185,000		
	EER	kW/kW	2.69		2.61		
	EER	Btu/h/W	9.17		8.89		
	PI	kW	20		21		
Cooling capacity at T4 ★1	Capacity	kW	43.5		49.0		
	Capacity	Btu/h	148,500		167,200		
	EER	kW/kW	2.69		2.69		
	EER	Btu/h/W	9.17		9.19		
	PI	kW	16		18		
CSPF at T3 ★3			5.20		5.51		
Power Factor at T3			0.9		0.9		
Allowed indoor capacity index connection	Norn.		550		600		
	Min.		275		300		
	Max.		715		780		
Dimensions (H×W×D)		mm	(1,657×1,240×765)+(1,657×1,240×765)		(1,657×1,240×765)+(1,657×1,240×765)		
Packing dimensions (H×W×D)		mm	(1,830×1,290×810)+(1,830×1,290×810)		(1,830×1,290×810)+(1,830×1,290×810)		
Mass	Unit	kg	220+285		220+220		
	Packed unit	kg	250+315		250+250		
Sound pressure level ★2		dB(A)	63		63		
Heat exchanger	Type		Cross fin coil		Cross fin coil		
Fan	Type		Propeller		Propeller		
	Discharge direction		Vertical		Vertical		
	Air flow Rate		m³/min	—		—	
	Motor	Quantity		2+2		2+2	
		Model		Brushless DC		Brushless DC	
		Output/pcs	kW	(0.75×2)+(0.75×2)		(0.75×2)+(0.75×2)	
Compressor	Motor	Quantity		1+1		1+1	
		Model		Inverter		Inverter	
		Type		Hermetically sealed scroll type		Hermetically sealed scroll type	
Refrigerant	Refrigerant name		R410A		R410A		
	Charge	kg	7.3+9.3		9.3+9.3		
Piping connections	Liquid	Type		Brazing connection		Brazing connection	
		Diameter (OD)	mm	φ15.9		φ15.9	
	Gas	Type		Brazing connection		Brazing connection	
		Diameter (OD)	mm	φ28.6		φ34.9	
Safety devices			High pressure switch, Fan driver overload protector, Overcurrent relay, Inverter overload protector, Over/under voltage protection PCB		High pressure switch, Fan driver overload protector, Overcurrent relay, Inverter overload protector, Over/under voltage protection PCB		
Standard accessories			Installation manual, Operation manual, Connection pipes, Clamps		Installation manual, Operation manual, Connection pipes, Clamps		
Drawing No.	Specifications		—		—		
	Sound level		—		—		

Note:

★1. The data are based on the conditions shown in the table below.

Condition	Indoor DB (°C)	Indoor WB (°C)	Outdoor DB (°C)	Main standard	Reference standard
T1	27.0	19.0	35.0	Saudi SASO 2874:2016	ISO 15042:2011
T3	29.0	19.0	46.0	UAE.S 5010-5:2016	ISO 15042:2011
T4	26.6	19.4	48.0	Kuwait 2019 (MEW R-6)	AHRI-1230

★2. 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.

★3. For calculating CSPF value, testing data of following tests were considered:
(Refer iso 16358-1:2013 for further details)

4. For detailed contents, see installation/operational manual.

Required tests	Optional tests
FULL LOAD AT T1	MINIMUM LOAD AT T1
HALF LOAD AT T1	HALF LOAD AT T3
FULL LOAD AT T3	MINIMUM LOAD AT 29°C

Model Name (Combination Unit)			RXQ26ANRYFK		RXQ28ANRYFK		
Model Name (Independent Unit)			RXQ10ARYFK+RXQ16ARYFK		RXQ12ARYFK+RXQ16ARYFK		
Cooling capacity at T1 ★1	Capacity	kW	73.0		78.5		
	Capacity	Btu/h	249,100		267,900		
	EER	kW/kW	3.47		3.47		
	EER	Btu/h/W	11.83		11.83		
	PI	kW	21		23		
Cooling capacity at T3 ★1	Capacity	kW	60.7		61.7		
	Capacity	Btu/h	207,000		210,500		
	EER	kW/kW	2.77		2.69		
	EER	Btu/h/W	9.45		9.19		
	PI	kW	22		23		
Cooling capacity at T4 ★1	Capacity	kW	41.0		46.5		
	Capacity	Btu/h	139,900		158,600		
	EER	kW/kW	2.83		2.82		
	EER	Btu/h/W	9.65		9.61		
	PI	kW	15		17		
CSPF at T3 ★3			4.79		5.04		
Power Factor at T3			0.9		0.9		
Allowed indoor capacity index connection	Norn.		650		700		
	Min.		325		350		
	Max.		845		910		
Dimensions (H×W×D)		mm	(1,657×1,240×765)+(1,657×1,240×765)		(1,657×1,240×765)+(1,657×1,240×765)		
Packing dimensions (H×W×D)		mm	(1,830×1,290×810)+(1,830×1,290×810)		(1,830×1,290×810)+(1,830×1,290×810)		
Mass	Unit	kg	220+285		220+285		
	Packed unit	kg	250+315		250+315		
Sound pressure level ★2		dB(A)	66		66		
Heat exchanger	Type		Cross fin coil		Cross fin coil		
Fan	Type		Propeller		Propeller		
	Discharge direction		Vertical		Vertical		
	Air flow Rate		m³/min	—	—		
	Motor	Quantity		2+2		2+2	
		Model		Brushless DC		Brushless DC	
		Output/pcs	kW	(0.75×2)+(0.75×2)		(0.75×2)+(0.75×2)	
Compressor	Motor	Quantity		1+2		1+2	
		Model		Inverter		Inverter	
		Type		Hermetically sealed scroll type		Hermetically sealed scroll type	
	Refrigerant	Refrigerant name		R410A		R410A	
	Charge	kg	9.0+11.8		9.3+11.8		
Piping connections	Liquid	Type		Brazing connection		Brazing connection	
		Diameter (OD)	mm	φ19.1		φ19.1	
	Gas	Type		Brazing connection		Brazing connection	
		Diameter (OD)	mm	φ34.9		φ34.9	
Safety devices			High pressure switch, Fan driver overload protector, Overcurrent relay, Inverter overload protector, Over/under voltage protection PCB		High pressure switch, Fan driver overload protector, Overcurrent relay, Inverter overload protector, Over/under voltage protection PCB		
Standard accessories			Installation manual, Operation manual, Connection pipes, Clamps		Installation manual, Operation manual, Connection pipes, Clamps		
Drawing No.	Specifications		—		—		
	Sound level		—		—		

Note:

★1. The data are based on the conditions shown in the table below.

Condition	Indoor DB (°C)	Indoor WB (°C)	Outdoor DB (°C)	Main standard	Reference standard
T1	27.0	19.0	35.0	Saudi SASO 2874:2016	ISO 15042:2011
T3	29.0	19.0	46.0	UAE.S 5010-5:2016	ISO 15042:2011
T4	26.6	19.4	48.0	Kuwait 2019 (MEW R-6)	AHRI-1230

★2. 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.

★3. For calculating CSPF value, testing data of following tests were considered:
(Refer iso 16358-1:2013 for further details)

4. For detailed contents, see installation/operational manual.

Required tests	Optional tests
FULL LOAD AT T1	MINIMUM LOAD AT T1
HALF LOAD AT T1	HALF LOAD AT T3
FULL LOAD AT T3	MINIMUM LOAD AT 29°C

Model Name (Combination Unit)			RXQ30ANRYFK		RXQ32ANRYFK		
Model Name (Independent Unit)			RXQ14ARYFK+RXQ16ARYFK		RXQ16ARYFK+RXQ16ARYFK		
Cooling capacity at T1 ★1	Capacity	kW	85.0		90.0		
	Capacity	Btu/h	290,050		307,100		
	EER	kW/kW	3.48		3.42		
	EER	Btu/h/W	11.86		11.68		
	PI	kW	24		26		
Cooling capacity at T3 ★1	Capacity	kW	68.7		69.2		
	Capacity	Btu/h	234,400		236,000		
	EER	kW/kW	2.75		2.77		
	EER	Btu/h/W	9.38		9.44		
	PI	kW	25		25		
Cooling capacity at T4 ★1	Capacity	kW	39.8		44.0		
	Capacity	Btu/h	135,900		150,000		
	EER	kW/kW	2.84		2.97		
	EER	Btu/h/W	9.71		10.14		
	PI	kW	14		15		
CSPF at T3 ★3			5.03		4.74		
Power Factor at T3			0.9		0.9		
Allowed indoor capacity index connection	Norn.		750		800		
	Min.		375		400		
	Max.		975		1,040		
Dimensions (H×W×D)		mm	(1,657×1,240×765)+(1,657×1,240×765)		(1,657×1,240×765)+(1,657×1,240×765)		
Packing dimensions (H×W×D)		mm	(1,830×1,290×810)+(1,830×1,290×810)		(1,830×1,290×810)+(1,830×1,290×810)		
Mass	Unit	kg	285+285		285+285		
	Packed unit	kg	315+315		315+315		
Sound pressure level ★2		dB(A)	68		68		
Heat exchanger	Type		Cross fin coil		Cross fin coil		
Fan	Type		Propeller		Propeller		
	Discharge direction		Vertical		Vertical		
	Air flow Rate		m³/min		—		
	Motor	Quantity		2+2		2+2	
		Model		Brushless DC		Brushless DC	
		Output/pcs		kW		(0.75×2)+(0.75×2)	
Compressor	Motor	Quantity		2+2		2+2	
		Model		Inverter		Inverter	
		Type		Hermetically sealed scroll type		Hermetically sealed scroll type	
Refrigerant	Refrigerant name		R410A		R410A		
	Charge	kg	11.7+11.8		11.8+11.8		
Piping connections	Liquid	Type		Brazing connection		Brazing connection	
		Diameter (OD)	mm	φ19.1		φ19.1	
	Gas	Type		Brazing connection		Brazing connection	
		Diameter (OD)	mm	φ34.9		φ34.9	
Safety devices			High pressure switch, Fan driver overload protector, Overcurrent relay, Inverter overload protector, Over/under voltage protection PCB		High pressure switch, Fan driver overload protector, Overcurrent relay, Inverter overload protector, Over/under voltage protection PCB		
Standard accessories			Installation manual, Operation manual, Connection pipes, Clamps		Installation manual, Operation manual, Connection pipes, Clamps		
Drawing No.	Specifications		—		—		
	Sound level		—		—		

Note:

★1. The data are based on the conditions shown in the table below.

Condition	Indoor DB (°C)	Indoor WB (°C)	Outdoor DB (°C)	Main standard	Reference standard
T1	27.0	19.0	35.0	Saudi SASO 2874:2016	ISO 15042:2011
T3	29.0	19.0	46.0	UAE.S 5010-5:2016	ISO 15042:2011
T4	26.6	19.4	48.0	Kuwait 2019 (MEW R-6)	AHRI-1230

★2. 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.

★3. For calculating CSPF value, testing data of following tests were considered:
(Refer iso 16358-1:2013 for further details)

4. For detailed contents, see installation/operational manual.

Required tests	Optional tests
FULL LOAD AT T1	MINIMUM LOAD AT T1
HALF LOAD AT T1	HALF LOAD AT T3
FULL LOAD AT T3	MINIMUM LOAD AT 29°C

Model Name (Combination Unit)			RXQ34ANRYFK		RXQ36ANRYFK		
Model Name (Independent Unit)			RXQ10ARYFK+RXQ12ARYFK+RXQ12ARYFK		RXQ12ARYFK+RXQ12ARYFK+RXQ12ARYFK		
Cooling capacity at T1 ★1	Capacity	kW	95.0		101		
	Capacity	Btu/h	324,250		343,050		
	EER	kW/kW	3.53		3.53		
	EER	Btu/h/W	12.05		12.04		
	PI	kW	27		29		
Cooling capacity at T3 ★1	Capacity	kW	80.3		81.3		
	Capacity	Btu/h	274,000		277,500		
	EER	kW/kW	2.66		2.61		
	EER	Btu/h/W	9.07		8.89		
	PI	kW	30		31		
Cooling capacity at T4 ★1	Capacity	kW	68.0		73.5		
	Capacity	Btu/h	232,100		250,800		
	EER	kW/kW	2.69		2.69		
	EER	Btu/h/W	9.17		9.19		
	PI	kW	25		27		
CSPF at T3 ★3			5.30		5.51		
Power Factor at T3			0.9		0.9		
Allowed indoor capacity index connection	Norn.		850		900		
	Min.		425		450		
	Max.		1,105		1,170		
Dimensions (H×W×D)		mm	(1,657×1,240×765)+(1,657×1,240×765)+(1,657×1,240×765)		(1,657×1,240×765)+(1,657×1,240×765)+(1,657×1,240×765)		
Packing dimensions (H×W×D)		mm	(1,830×1,290×810)+(1,830×1,290×810)+(1,830×1,290×810)		(1,830×1,290×810)+(1,830×1,290×810)+(1,830×1,290×810)		
Mass	Unit	kg	220+220+220		220+220+220		
	Packed unit	kg	250+250+250		250+250+250		
Sound pressure level ★2		dB(A)	65		65		
Heat exchanger	Type		Cross fin coil		Cross fin coil		
Fan	Type		Propeller		Propeller		
	Discharge direction		Vertical		Vertical		
	Air flow Rate		m³/min	—		—	
	Motor	Quantity		2+2		2+2	
		Model		Brushless DC		Brushless DC	
Output/pcs		kW	(0.75×2)+(0.75×2)+(0.75×2)		(0.75×2)+(0.75×2)+(0.75×2)		
Compressor	Motor	Quantity		1+1+1		1+1+1	
		Model		Inverter		Inverter	
		Type		Hermetically sealed scroll type		Hermetically sealed scroll type	
Refrigerant	Refrigerant name		R410A		R410A		
	Charge	kg	7.3+9.3+9.3		9.3+9.3+9.3		
Piping connections	Liquid	Type		Brazing connection		Brazing connection	
		Diameter (OD)	mm	φ19.1		φ19.1	
	Gas	Type		Brazing connection		Brazing connection	
		Diameter (OD)	mm	φ34.9		φ41.3	
Safety devices			High pressure switch, Fan driver overload protector, Overcurrent relay, Inverter overload protector, Over/under voltage protection PCB		High pressure switch, Fan driver overload protector, Overcurrent relay, Inverter overload protector, Over/under voltage protection PCB		
Standard accessories			Installation manual, Operation manual, Connection pipes, Clamps		Installation manual, Operation manual, Connection pipes, Clamps		
Drawing No.	Specifications		—		—		
	Sound level		—		—		

Note:

★1. The data are based on the conditions shown in the table below.

Condition	Indoor DB (°C)	Indoor WB (°C)	Outdoor DB (°C)	Main standard	Reference standard
T1	27.0	19.0	35.0	Saudi SASO 2874:2016	ISO 15042:2011
T3	29.0	19.0	46.0	UAE.S 5010-5:2016	ISO 15042:2011
T4	26.6	19.4	48.0	Kuwait 2019 (MEW R-6)	AHRI-1230

★2. 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.

★3. For calculating CSPF value, testing data of following tests were considered:
(Refer iso 16358-1:2013 for further details)

4. For detailed contents, see installation/operational manual.

Required tests	Optional tests
FULL LOAD AT T1	MINIMUM LOAD AT T1
HALF LOAD AT T1	HALF LOAD AT T3
FULL LOAD AT T3	MINIMUM LOAD AT 29°C

Model Name (Combination Unit)			RXQ38ANRYFK		RXQ40ANRYFK		
Model Name (Independent Unit)			RXQ10ARYFK+RXQ12ARYFK+RXQ16ARYFK		RXQ12ARYFK+RXQ12ARYFK+RXQ16ARYFK		
Cooling capacity at T1 ★1	Capacity	kW	107		112		
	Capacity	Btu/h	363,450		382,250		
	EER	kW/kW	3.49		3.48		
	EER	Btu/h/W	11.90		11.89		
	PI	kW	31		32		
Cooling capacity at T3 ★1	Capacity	kW	87.8		88.8		
	Capacity	Btu/h	299,500		303,000		
	EER	kW/kW	2.72		2.67		
	EER	Btu/h/W	9.27		9.10		
	PI	kW	32		33		
Cooling capacity at T4 ★1	Capacity	kW	65.5		71.0		
	Capacity	Btu/h	223,500		242,200		
	EER	kW/kW	2.78		2.77		
	EER	Btu/h/W	9.47		9.46		
	PI	kW	24		26		
CSPF at T3 ★3			4.99		5.18		
Power Factor at T3			0.9		0.9		
Allowed indoor capacity index connection	Norn.		950		1,000		
	Min.		475		500		
	Max.		1,235		1,300		
Dimensions (H×W×D)		mm	(1,657×1,240×765)+(1,657×1,240×765)+(1,657×1,240×765)		(1,657×1,240×765)+(1,657×1,240×765)+(1,657×1,240×765)		
Packing dimensions (H×W×D)		mm	(1,830×1,290×810)+(1,830×1,290×810)+(1,830×1,290×810)		(1,830×1,290×810)+(1,830×1,290×810)+(1,830×1,290×810)		
Mass	Unit	kg	220+220+285		220+220+285		
	Packed unit	kg	250+250+315		250+250+315		
Sound pressure level ★2		dB(A)	67		67		
Heat exchanger	Type		Cross fin coil		Cross fin coil		
Fan	Type		Propeller		Propeller		
	Discharge direction		Vertical		Vertical		
	Air flow Rate		m³/min	—			
	Motor	Quantity		2+2		2+2	
		Model		Brushless DC		Brushless DC	
		Output/pcs	kW	(0.75×2)+(0.75×2)+(0.75×2)		(0.75×2)+(0.75×2)+(0.75×2)	
Compressor	Motor	Quantity		1+1+2		1+1+2	
		Model		Inverter		Inverter	
		Type		Hermetically sealed scroll type		Hermetically sealed scroll type	
Refrigerant	Refrigerant name		R410A		R410A		
	Charge	kg	7.3+9.3+11.8		9.3+9.3+11.8		
Piping connections	Liquid	Type		Brazing connection		Brazing connection	
		Diameter (OD)	mm	φ19.1		φ19.1	
	Gas	Type		Brazing connection		Brazing connection	
		Diameter (OD)	mm	φ41.3		φ41.3	
Safety devices			High pressure switch, Fan driver overload protector, Overcurrent relay, Inverter overload protector, Over/under voltage protection PCB		High pressure switch, Fan driver overload protector, Overcurrent relay, Inverter overload protector, Over/under voltage protection PCB		
Standard accessories			Installation manual, Operation manual, Connection pipes, Clamps		Installation manual, Operation manual, Connection pipes, Clamps		
Drawing No.	Specifications		—		—		
	Sound level		—		—		

Note:

★1. The data are based on the conditions shown in the table below.

Condition	Indoor DB (°C)	Indoor WB (°C)	Outdoor DB (°C)	Main standard	Reference standard
T1	27.0	19.0	35.0	Saudi SASO 2874:2016	ISO 15042:2011
T3	29.0	19.0	46.0	UAE.S 5010-5:2016	ISO 15042:2011
T4	26.6	19.4	48.0	Kuwait 2019 (MEW R-6)	AHRI-1230

★2. 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.

★3. For calculating CSPF value, testing data of following tests were considered:
(Refer iso 16358-1:2013 for further details)

4. For detailed contents, see installation/operational manual.

Required tests	Optional tests
FULL LOAD AT T1	MINIMUM LOAD AT T1
HALF LOAD AT T1	HALF LOAD AT T3
FULL LOAD AT T3	MINIMUM LOAD AT 29°C

Model Name (Combination Unit)			RXQ42ANRYFK		RXQ44ANRYFK		
Model Name (Independent Unit)			RXQ12ARYFK+RXQ14ARYFK+RXQ16ARYFK		RXQ12ARYFK+RXQ16ARYFK+RXQ16ARYFK		
Cooling capacity at T1 ★1	Capacity	kW	119		124		
	Capacity	Btu/h	404,400		421,450		
	EER	kW/kW	3.49		3.45		
	EER	Btu/h/W	11.91		11.77		
	PI	kW	34		36		
Cooling capacity at T3 ★1	Capacity	kW	95.8		96.3		
	Capacity	Btu/h	326,900		328,500		
	EER	kW/kW	2.71		2.72		
	EER	Btu/h/W	9.23		9.28		
	PI	kW	35		35		
Cooling capacity at T4 ★1	Capacity	kW	64.3		68.5		
	Capacity	Btu/h	219,500		233,600		
	EER	kW/kW	2.78		2.87		
	EER	Btu/h/W	9.50		9.77		
	PI	kW	23		24		
CSPF at T3 ★3			5.15		4.93		
Power Factor at T3			0.9		0.9		
Allowed indoor capacity index connection	Norn.		1,050		1,100		
	Min.		525		550		
	Max.		1,365		1,430		
Dimensions (H×W×D)		mm	(1,657×1,240×765)+(1,657×1,240×765)+(1,657×1,240×765)		(1,657×1,240×765)+(1,657×1,240×765)+(1,657×1,240×765)		
Packing dimensions (H×W×D)		mm	(1,830×1,290×810)+(1,830×1,290×810)+(1,830×1,290×810)		(1,830×1,290×810)+(1,830×1,290×810)+(1,830×1,290×810)		
Mass	Unit	kg	220+285+285		220+285+285		
	Packed unit	kg	250+315+315		250+315+315		
Sound pressure level ★2		dB(A)	69		69		
Heat exchanger	Type		Cross fin coil		Cross fin coil		
Fan	Type		Propeller		Propeller		
	Discharge direction		Vertical		Vertical		
	Air flow Rate		m³/min	—		—	
	Motor	Quantity		2+2		2+2	
		Model		Brushless DC		Brushless DC	
Output/pcs		kW	(0.75×2)+(0.75×2)+(0.75×2)		(0.75×2)+(0.75×2)+(0.75×2)		
Compressor	Motor	Quantity		2+1+2		2+2+1	
		Model		Inverter		Inverter	
		Type		Hermetically sealed scroll type		Hermetically sealed scroll type	
Refrigerant	Refrigerant name		R410A		R410A		
	Charge	kg	9.3+11.7+11.8		9.3+11.8+11.8		
Piping connections	Liquid	Type		Brazing connection		Brazing connection	
		Diameter (OD)	mm	φ19.1		φ19.1	
	Gas	Type		Brazing connection		Brazing connection	
		Diameter (OD)	mm	φ41.3		φ41.3	
Safety devices			High pressure switch, Fan driver overload protector, Overcurrent relay, Inverter overload protector, Over/under voltage protection PCB		High pressure switch, Fan driver overload protector, Overcurrent relay, Inverter overload protector, Over/under voltage protection PCB		
Standard accessories			Installation manual, Operation manual, Connection pipes, Clamps		Installation manual, Operation manual, Connection pipes, Clamps		
Drawing No.	Specifications		—		—		
	Sound level		—		—		

Note:

★1. The data are based on the conditions shown in the table below.

Condition	Indoor DB (°C)	Indoor WB (°C)	Outdoor DB (°C)	Main standard	Reference standard
T1	27.0	19.0	35.0	Saudi SASO 2874:2016	ISO 15042:2011
T3	29.0	19.0	46.0	UAE.S 5010-5:2016	ISO 15042:2011
T4	26.6	19.4	48.0	Kuwait 2019 (MEW R-6)	AHRI-1230

★2. 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.

★3. For calculating CSPF value, testing data of following tests were considered:
(Refer iso 16358-1:2013 for further details)

4. For detailed contents, see installation/operational manual.

Required tests	Optional tests
FULL LOAD AT T1	MINIMUM LOAD AT T1
HALF LOAD AT T1	HALF LOAD AT T3
FULL LOAD AT T3	MINIMUM LOAD AT 29°C

Model Name (Combination Unit)			RXQ46ANRYFK		RXQ48ANRYFK		
Model Name (Independent Unit)			RXQ14ARYFK+RXQ16ARYFK+RXQ16ARYFK		RXQ16ARYFK+RXQ16ARYFK+RXQ16ARYFK		
Cooling capacity at T1 ★1	Capacity	kW	130		135		
	Capacity	Btu/h	443,600		460,650		
	EER	kW/kW	3.46		3.42		
	EER	Btu/h/W	11.80		11.68		
	PI	kW	38		39		
Cooling capacity at T3 ★1	Capacity	kW	103		104		
	Capacity	Btu/h	352,400		354,000		
	EER	kW/kW	2.75		2.77		
	EER	Btu/h/W	9.40		9.44		
	PI	kW	38		38		
Cooling capacity at T4 ★1	Capacity	kW	61.8		66.0		
	Capacity	Btu/h	210,900		225,000		
	EER	kW/kW	2.89		2.97		
	EER	Btu/h/W	9.86		10.14		
	PI	kW	21		22		
CSPF at T3 ★3			4.93		4.74		
Power Factor at T3			0.9		0.9		
Allowed indoor capacity index connection	Norn.		1,150		1,200		
	Min.		575		600		
	Max.		1,495		1,560		
Dimensions (H×W×D)		mm	(1,657×1,240×765)+(1,657×1,240×765)+(1,657×1,240×765)		(1,657×1,240×765)+(1,657×1,240×765)+(1,657×1,240×765)		
Packing dimensions (H×W×D)		mm	(1,830×1,290×810)+(1,830×1,290×810)+(1,830×1,290×810)		(1,830×1,290×810)+(1,830×1,290×810)+(1,830×1,290×810)		
Mass	Unit	kg	285+285+285		285+285+285		
	Packed unit	kg	315+315+315		315+315+315		
Sound pressure level ★2		dB(A)	70		70		
Heat exchanger	Type		Cross fin coil		Cross fin coil		
Fan	Type		Propeller		Propeller		
	Discharge direction		Vertical		Vertical		
	Air flow Rate		m³/min	—		—	
	Motor	Quantity		2+2		2+2	
		Model		Brushless DC		Brushless DC	
Output/pcs		kW	(0.75×2)+(0.75×2)+(0.75×2)		(0.75×2)+(0.75×2)+(0.75×2)		
Compressor	Motor	Quantity		2+2+2		2+2+2	
		Model		Inverter		Inverter	
		Type		Hermetically sealed scroll type		Hermetically sealed scroll type	
Refrigerant	Refrigerant name		R410A		R410A		
	Charge	kg	11.7+11.8+11.8		11.8+11.8+11.8		
Piping connections	Liquid	Type		Brazing connection		Brazing connection	
		Diameter (OD)	mm	φ19.1		φ19.1	
	Gas	Type		Brazing connection		Brazing connection	
		Diameter (OD)	mm	φ41.3		φ41.3	
Safety devices			High pressure switch, Fan driver overload protector, Overcurrent relay, Inverter overload protector, Over/under voltage protection PCB		High pressure switch, Fan driver overload protector, Overcurrent relay, Inverter overload protector, Over/under voltage protection PCB		
Standard accessories			Installation manual, Operation manual, Connection pipes, Clamps		Installation manual, Operation manual, Connection pipes, Clamps		
Drawing No.	Specifications		—		—		
	Sound level		—		—		

Note:

★1. The data are based on the conditions shown in the table below.

Condition	Indoor DB (°C)	Indoor WB (°C)	Outdoor DB (°C)	Main standard	Reference standard
T1	27.0	19.0	35.0	Saudi SASO 2874:2016	ISO 15042:2011
T3	29.0	19.0	46.0	UAE.S 5010-5:2016	ISO 15042:2011
T4	26.6	19.4	48.0	Kuwait 2019 (MEW R-6)	AHRI-1230

★2. 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.

★3. For calculating CSPF value, testing data of following tests were considered:
(Refer iso 16358-1:2013 for further details)

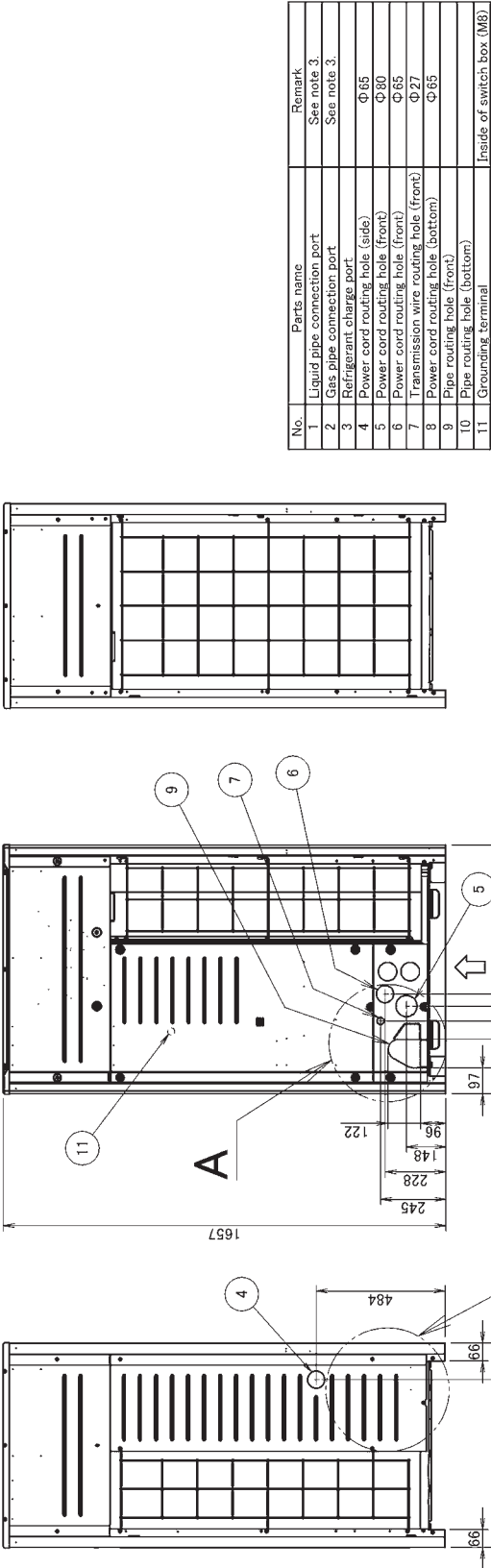
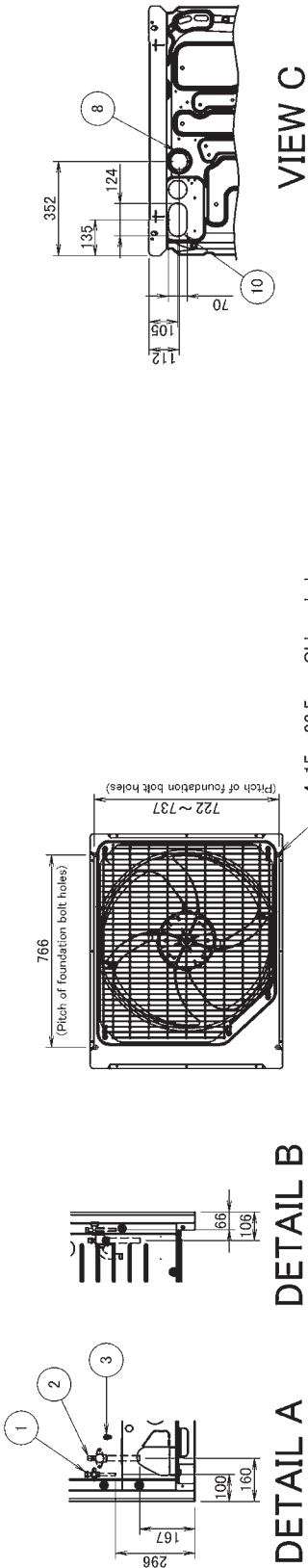
4. For detailed contents, see installation/operational manual.

Required tests	Optional tests
FULL LOAD AT T1	MINIMUM LOAD AT T1
HALF LOAD AT T1	HALF LOAD AT T3
FULL LOAD AT T3	MINIMUM LOAD AT 29°C

2. Dimensions

2.1 Independent Unit
RXQ6ARYFK / RXQ8ARYFK

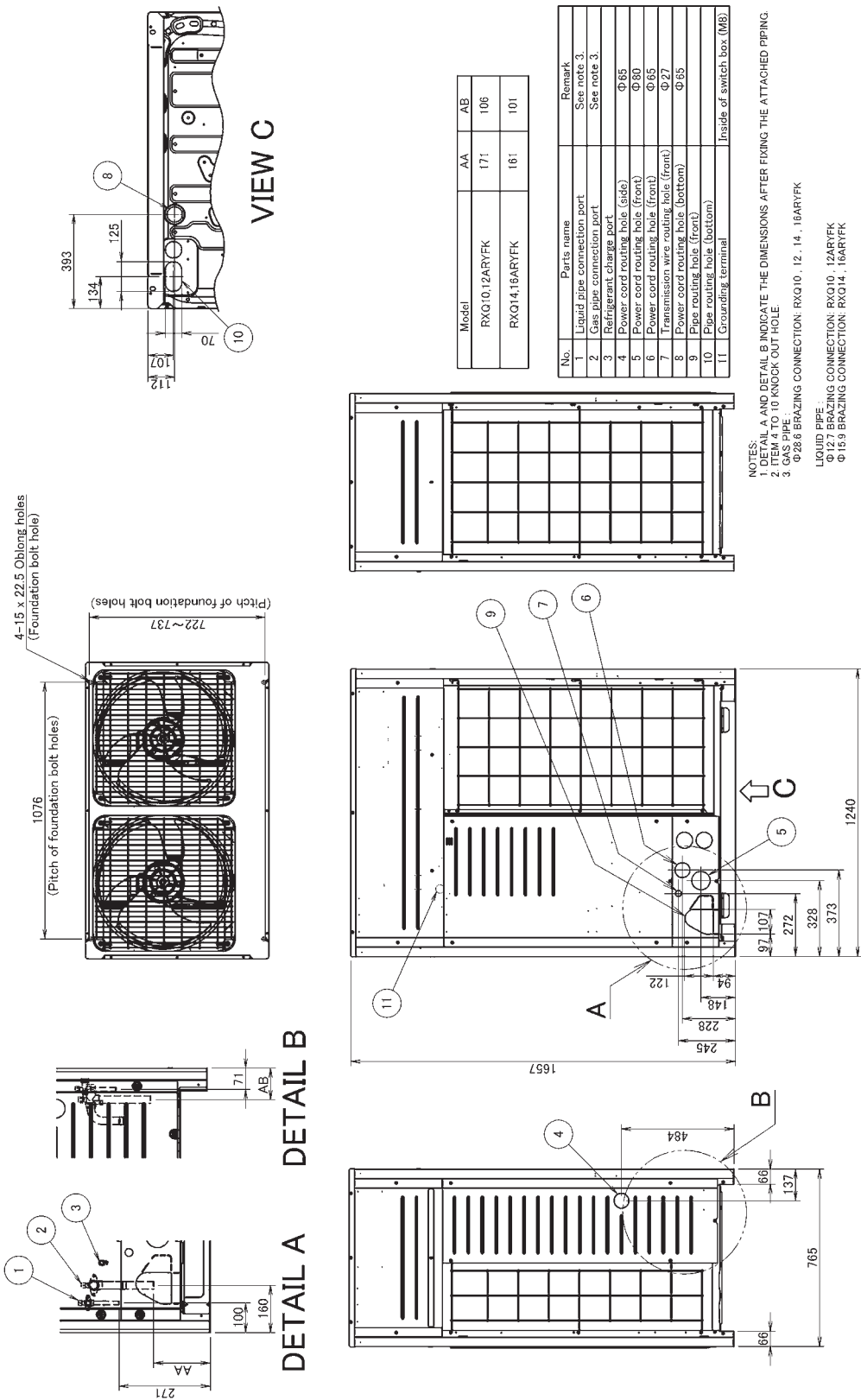
Unit: mm



3D124512

RXQ10ARYFK / RXQ12ARYFK / RXQ14ARYFK / RXQ16ARYFK

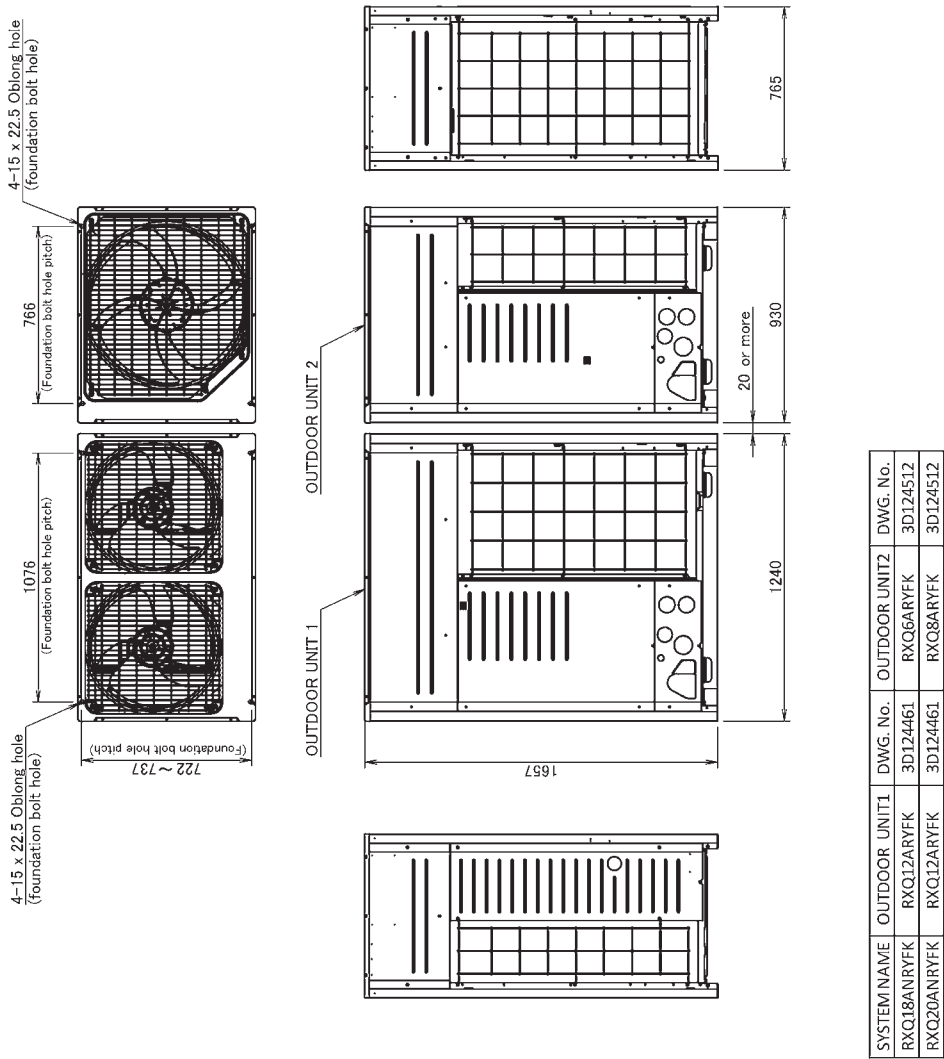
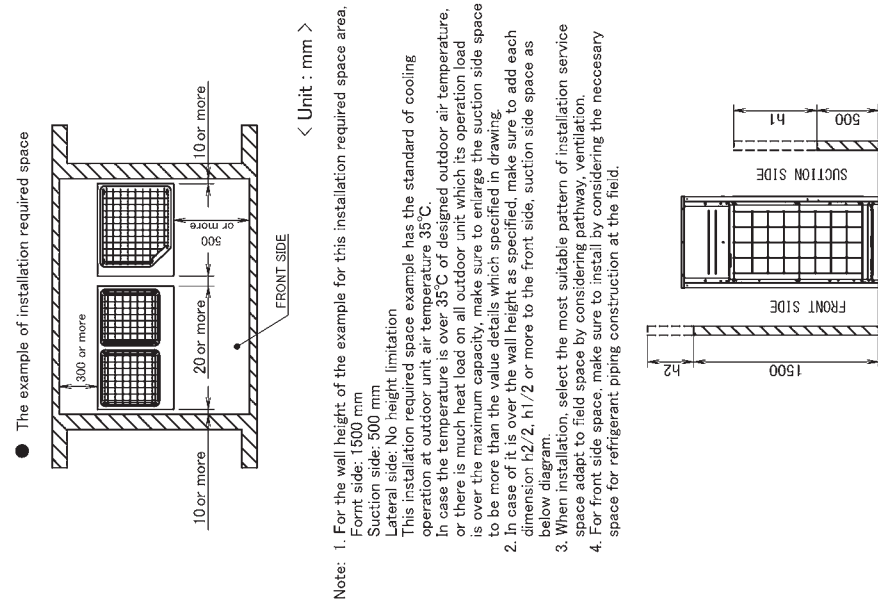
Unit: mm



3D124461

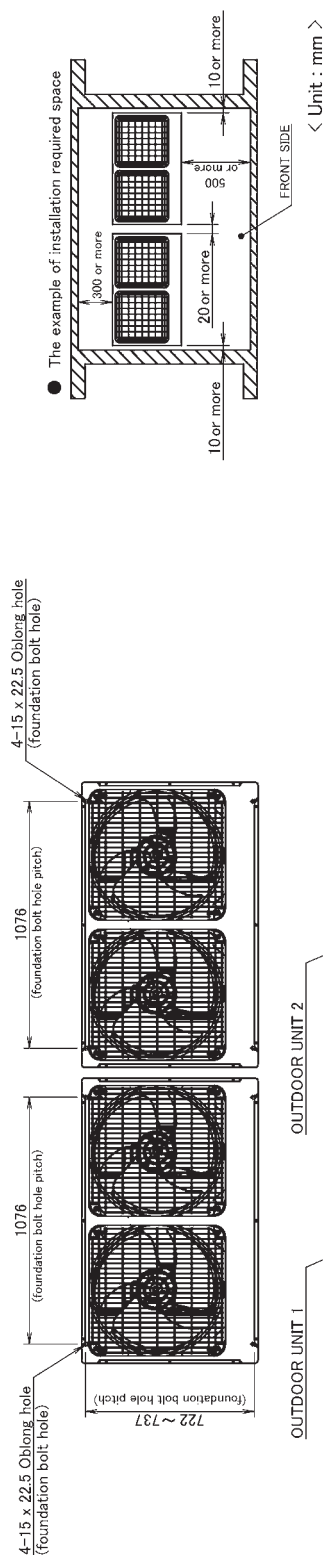
2.2 Combination Unit

RXQ18ANRYFK / RXQ20ANRYFK



3D124566

RXQ22ANRYFK / RXQ24ANRYFK / RXQ26ANRYFK / RXQ28ANRYFK / RXQ30ANRYFK / RXQ32ANRYFK



Note: 1. For the wall height of the example for this installation required space area,

Front side: 1500 mm

Suction side: 500 mm

Lateral side: No height

This installation requires operation at outdoor u

operation at outdoor u
In case the temperatur

In case the temperature is too low, or there is much heat

is over the maximum c

to be more than the va

In case of it is over the

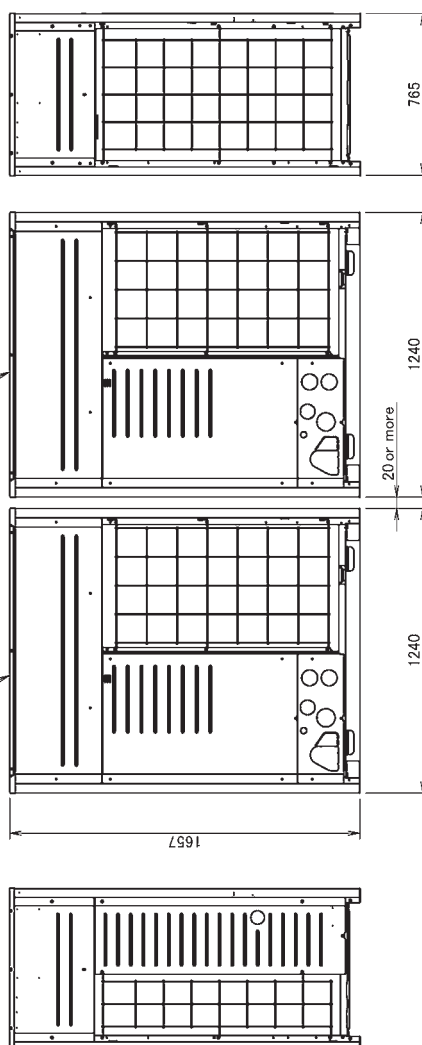
dimension $h2/2, h1/2$

below diagram.

When installation, select space adapt to field sp

space adapt to field sp
For front side space, n

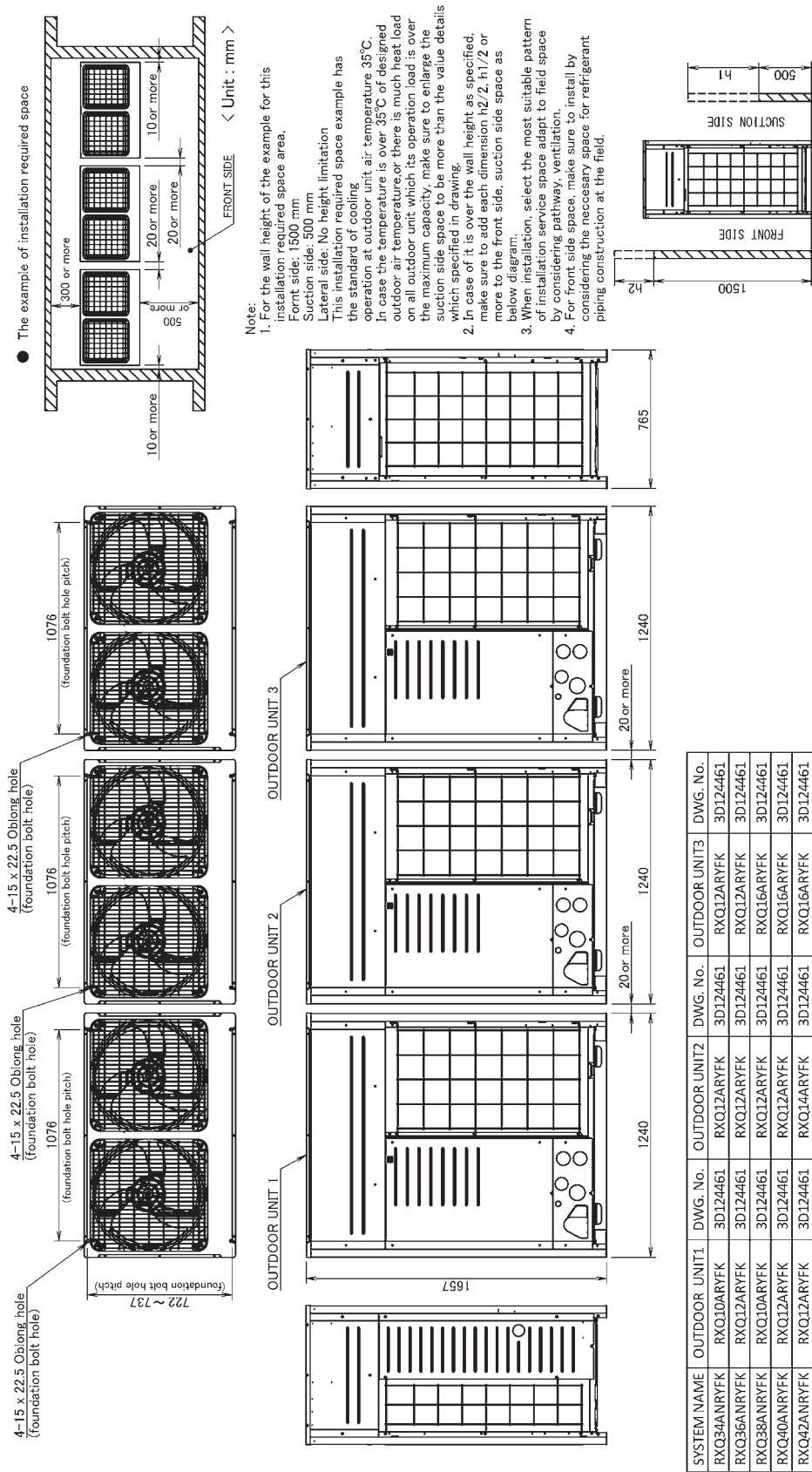
For front side space, n



SYSTEM NAME	OUTDOOR UNIT1	DWG. No.	OUTDOOR UNIT2	DWG. No.
RXQ222ANRYFK	RXQ10ARFK	3D124461	RXQ12ARFK	3D124461
RXQ224ANRYFK	RXQ12ARFK	3D124461	RXQ12ARFK	3D124461
RXQ26ANRYFK	RXQ10ARFK	3D124461	RXQ16ARFK	3D124461
RXQ28ANRYFK	RXQ12ARFK	3D124461	RXQ16ARFK	3D124461
RXQ30ANRYFK	RXQ14ARFK	3D124461	RXQ16ARFK	3D124461
RXQ32ANRYFK	RXQ16ARFK	3D124461	RXQ16ARFK	3D124461

3D124567

RXQ34ANRYFK / RXQ36ANRYFK / RXQ38ANRYFK / RXQ40ANRYFK / RXQ42ANRYFK /
RXQ44ANRYFK / RXQ46ANRYFK / RXQ48ANRYFK

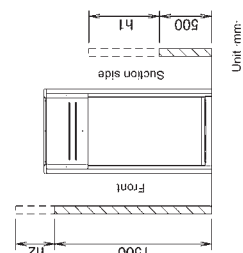
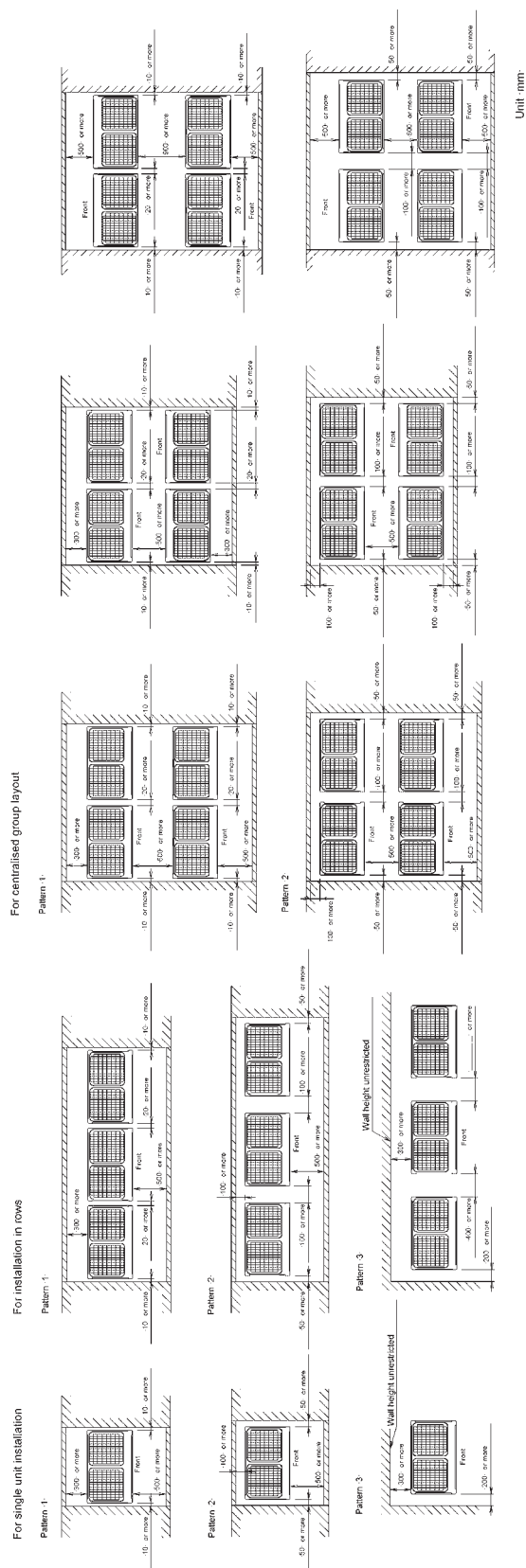


SYSTEM NAME	OUTDOOR UNIT1	DWG. No.	OUTDOOR UNIT2	DWG. No.	OUTDOOR UNIT3	DWG. No.
RXQ34ANRYFK	RXQ10ARYFK	3D124461	RXQ12ARYFK	3D124461	RXQ12ARYFK	3D124461
RXQ36ANRYFK	RXQ12ARYFK	3D124461	RXQ12ARYFK	3D124461	RXQ12ARYFK	3D124461
RXQ38ANRYFK	RXQ10ARYFK	3D124461	RXQ12ARYFK	3D124461	RXQ16ARYFK	3D124461
RXQ40ANRYFK	RXQ12ARYFK	3D124461	RXQ12ARYFK	3D124461	RXQ16ARYFK	3D124461
RXQ42ANRYFK	RXQ12ARYFK	3D124461	RXQ14ARYFK	3D124461	RXQ16ARYFK	3D124461
RXQ44ANRYFK	RXQ12ARYFK	3D124461	RXQ16ARYFK	3D124461	RXQ16ARYFK	3D124461
RXQ46ANRYFK	RXQ14ARYFK	3D124461	RXQ16ARYFK	3D124461	RXQ16ARYFK	3D124461
RXQ48ANRYFK	RXQ16ARYFK	3D124461	RXQ16ARYFK	3D124461	RXQ16ARYFK	3D124461

3D124569

3. Service Space

RXQ6ARYFK / RXQ8ARYFK / RXQ10ARYFK / RXQ12ARYFK / RXQ14ARYFK / RXQ16ARYFK /
RXQ18ANRYFK / RXQ20ANRYFK / RXQ22ANRYFK / RXQ24ANRYFK / RXQ26ANRYFK /
RXQ28ANRYFK / RXQ30ANRYFK / RXQ32ANRYFK / RXQ34ANRYFK / RXQ36ANRYFK /
RXQ38ANRYFK / RXQ40ANRYFK / RXQ42ANRYFK / RXQ44ANRYFK / RXQ46ANRYFK /
RXQ48ANRYFK



3D096862A

Notes

1. Height of the walls in case of patterns 1 and 2:
Front: 1500 mm
Suction side: 500 mm
Side: height unrestricted
The installation space shown on this drawing is based on the assumption that the height of the wall is 2.40 m. If the design outdoor air temperature exceeds 46 °F, the installation space must be increased.
2. If the walls are higher than mentioned above, then:
- suction side: service space + h/1/2
- front side: service space + h/2/2

3. When installing the units, select the pattern that best fits the available space.

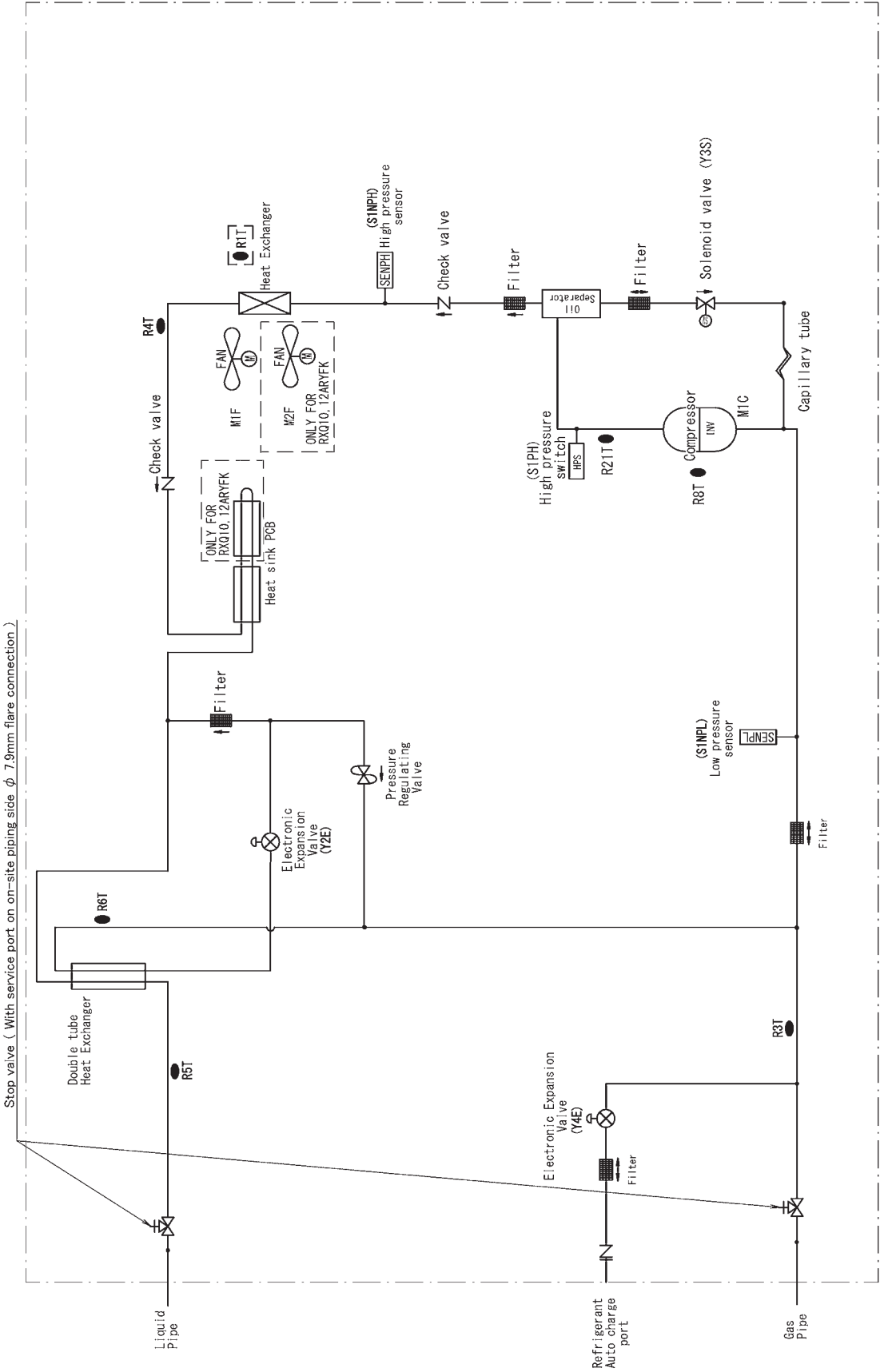
Always keep in mind to leave sufficient space for a person to pass between unit and wall and for the air to circulate freely.

if more units are to be installed than are foreseen in the above patterns, your layout should take into account the possibility of air short circuits.

4. Provide sufficient space at the front to connect refrigerant piping (comfortably).

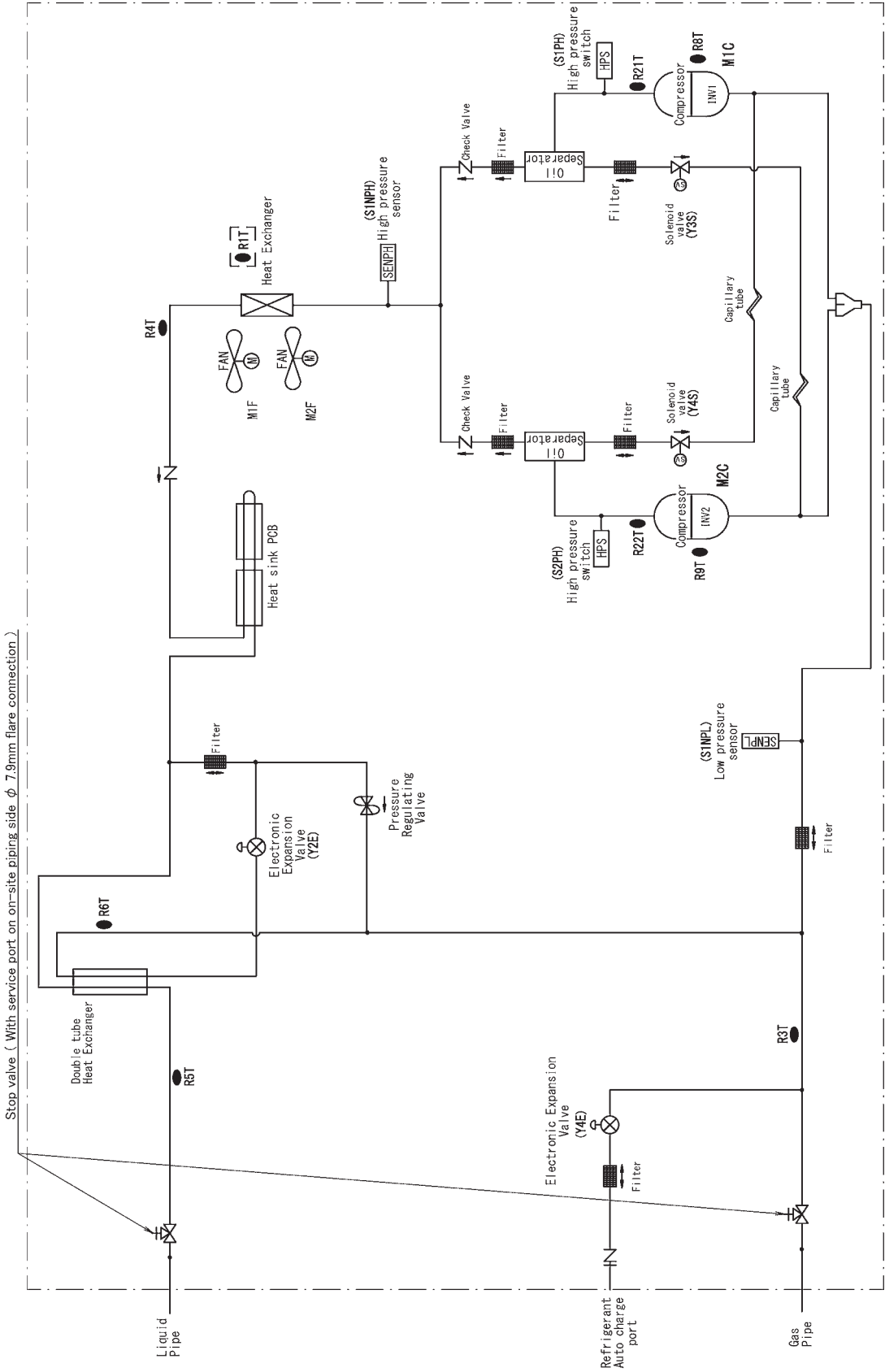
4. Piping Diagrams

RXQ6ARYFK / RXQ8ARYFK / RXQ10ARYFK / RXQ12ARYFK



3D124201

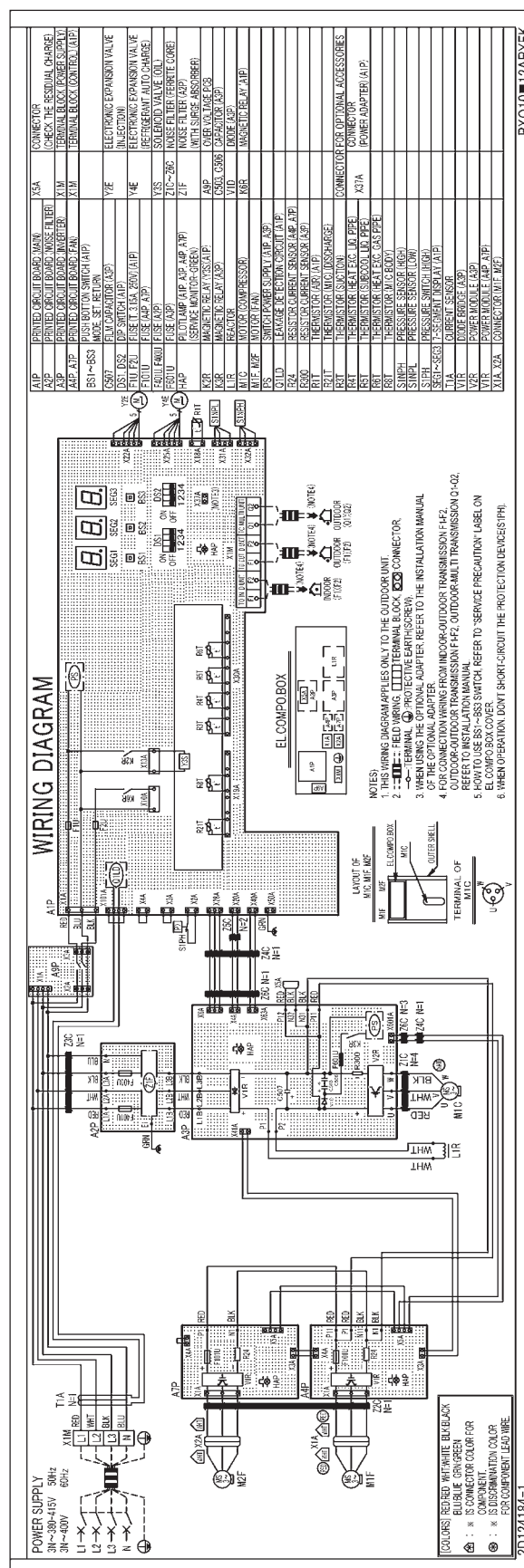
RXQ14ARYFK / RXQ16ARYFK



3D124202

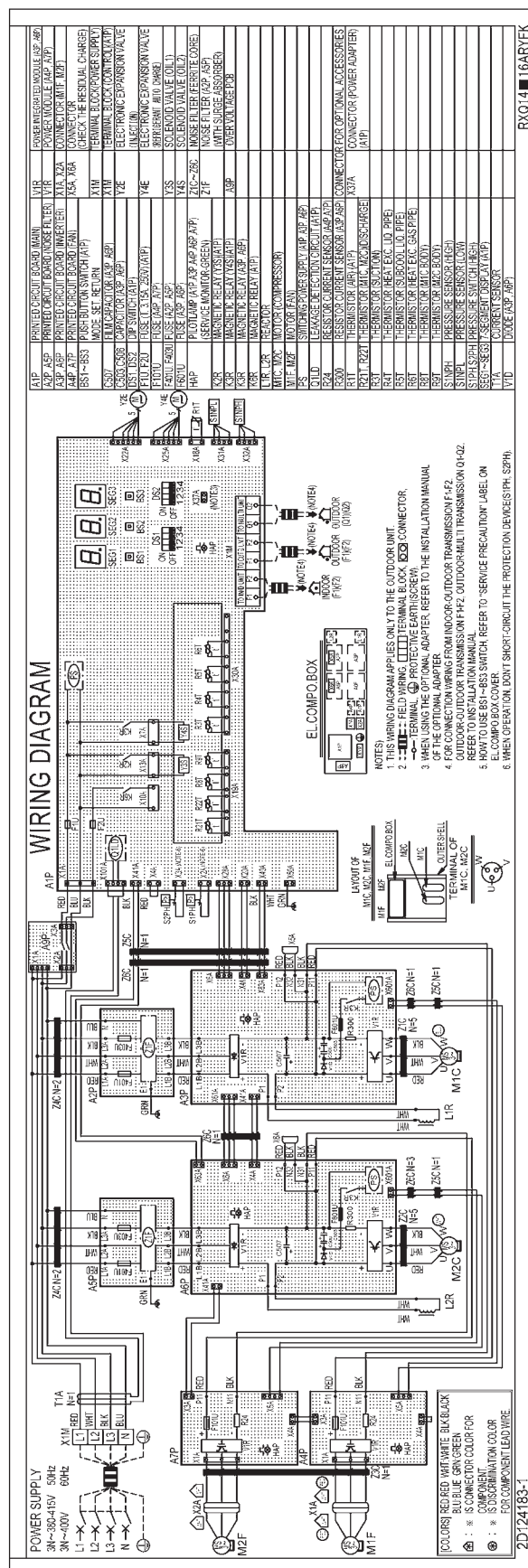
RXQ6ARYFK / RXQ8ARYFK



RXQ10ARYFK / RXQ12ARYFK

2D124184

RXQ14ARYFK / RXQ16ARYFK



2D124183

6. Field Wiring

RXQ6ARYFK / RXQ8ARYFK / RXQ10ARYFK / RXQ12ARYFK / RXQ14ARYFK / RXQ16ARYFK

- NOTES
- 1) ALL WIRING COMPONENTS AND MATERIALS TO BE PROCURED ON THE SITE MUST COMPLY WITH THE APPLICABLE LOCAL AND NATIONAL CODES.

2) USE COPPER CONDUCTORS ONLY.

3) AS FOR DETAILS, SEE WIRING DIAGRAM.

4) INSTALL CIRCUIT BREAKER FOR SAFETY.

5) ALL FIELD WIRING AND COMPONENTS MUST BE PROVIDED BY LICENSED ELECTRICIAN.

6) UNIT SHALL BE GROUNDED IN COMPLIANCE WITH THE APPLICABLE LOCAL AND NATIONAL CODES.

7) WIRING SHOWN ARE GENERAL POINTS-OF-CONNECTION GUIDES ONLY AND ARE NOT INTENDED FOR OR TO INCLUDE ALL DETAILS FOR A SPECIFIC INSTALLATION.

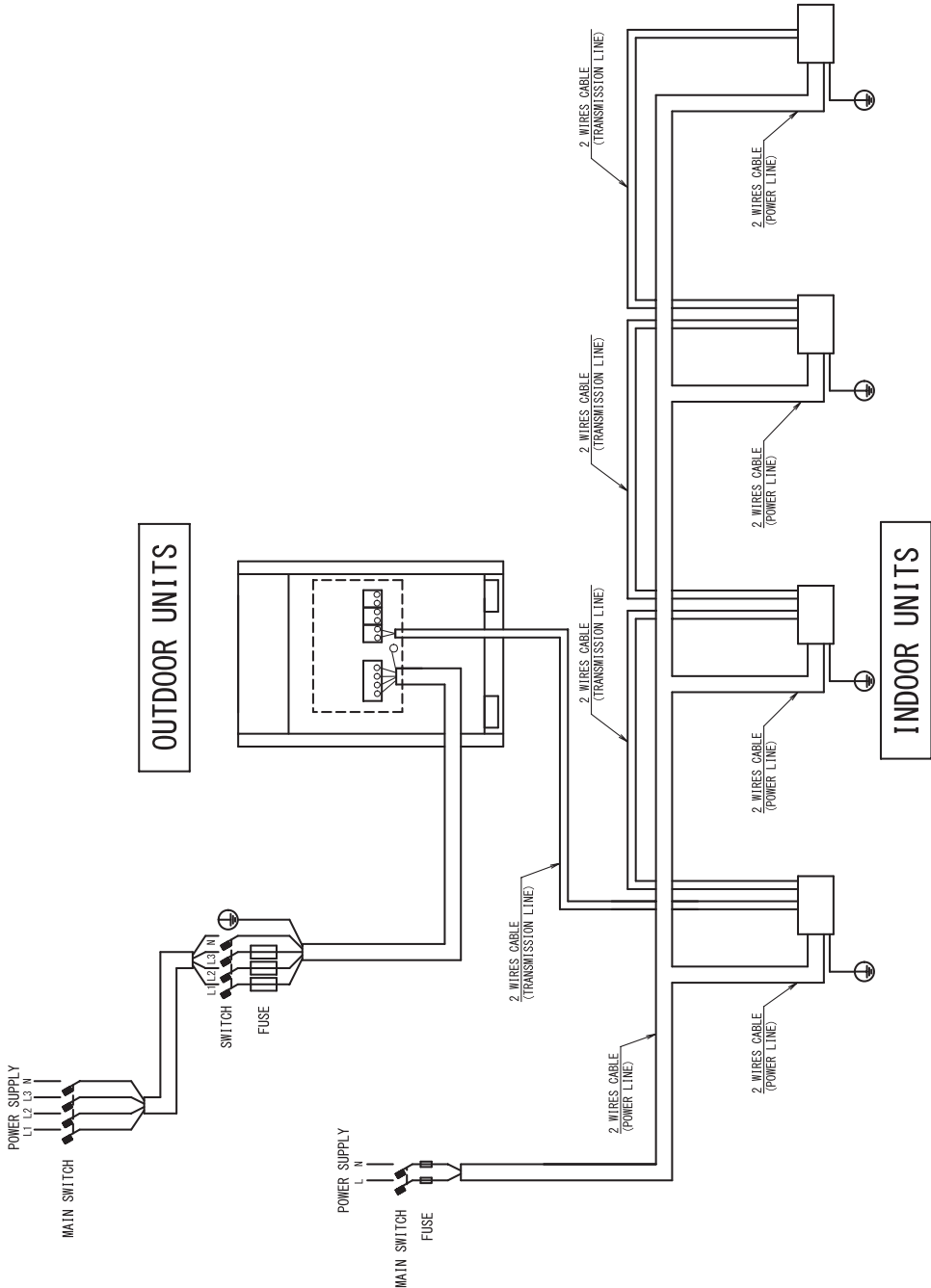
8) FOR INDOOR UNITS, INSTALL ONE SWITCH AND ONE FUSE PER SYSTEM. (NOT PER INDOOR UNIT)

9) INSTALL THE MAIN SWITCH THAT CAN INTERRUPT ALL THE POWER SOURCES IN AN INTEGRATED MANNER BECAUSE THIS SYSTEM CONSISTS OF THE EQUIPMENT UTILIZING THE MULTIPLE POWER SOURCES.

10) MUST INSTALL EARTH LEAKAGE CIRCUIT BREAKER.

11) SINCE THIS PRODUCT IS EQUIPPED WITH AN INVERTER, HARMONICS WILL BE GENERATED.

IF LOCAL LAWS REQUIRE THE SUPPRESSION OF HARMONICS ON THE BUILDING, PLEASE TAKE HARMONIC SUPPRESSION MEASURES ON THE ELECTRICAL EQUIPMENT SIDE.



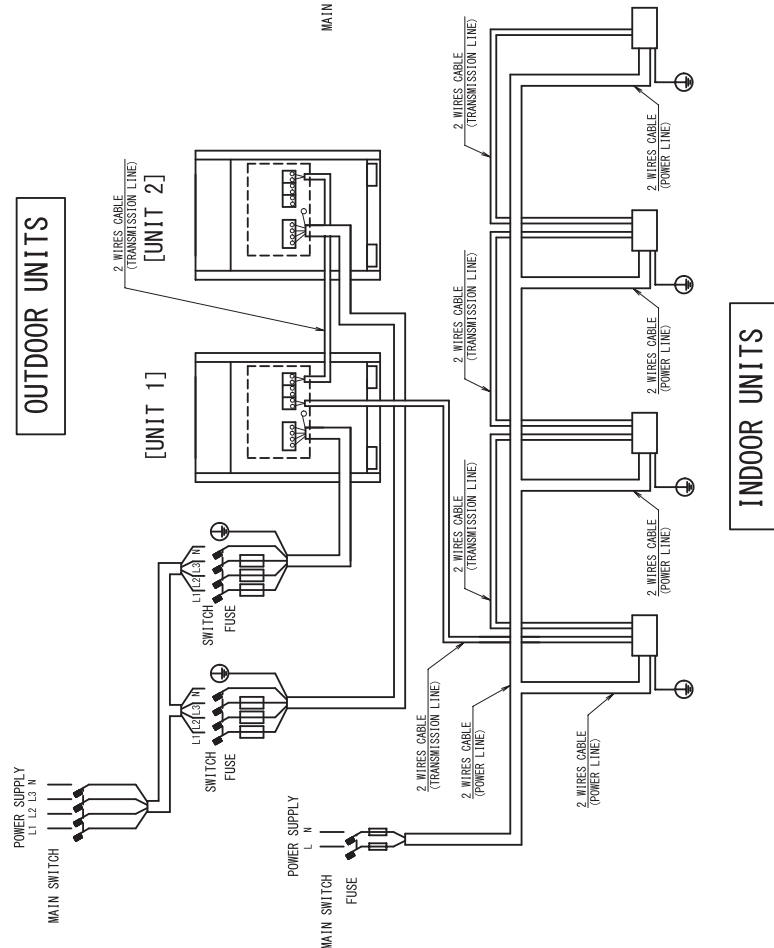
3D111511C

RXQ18ANRYFK / RXQ20ANRYFK / RXQ22ANRYFK / RXQ24ANRYFK / RXQ26ANRYFK / RXQ28ANRYFK / RXQ30ANRYFK / RXQ32ANRYFK

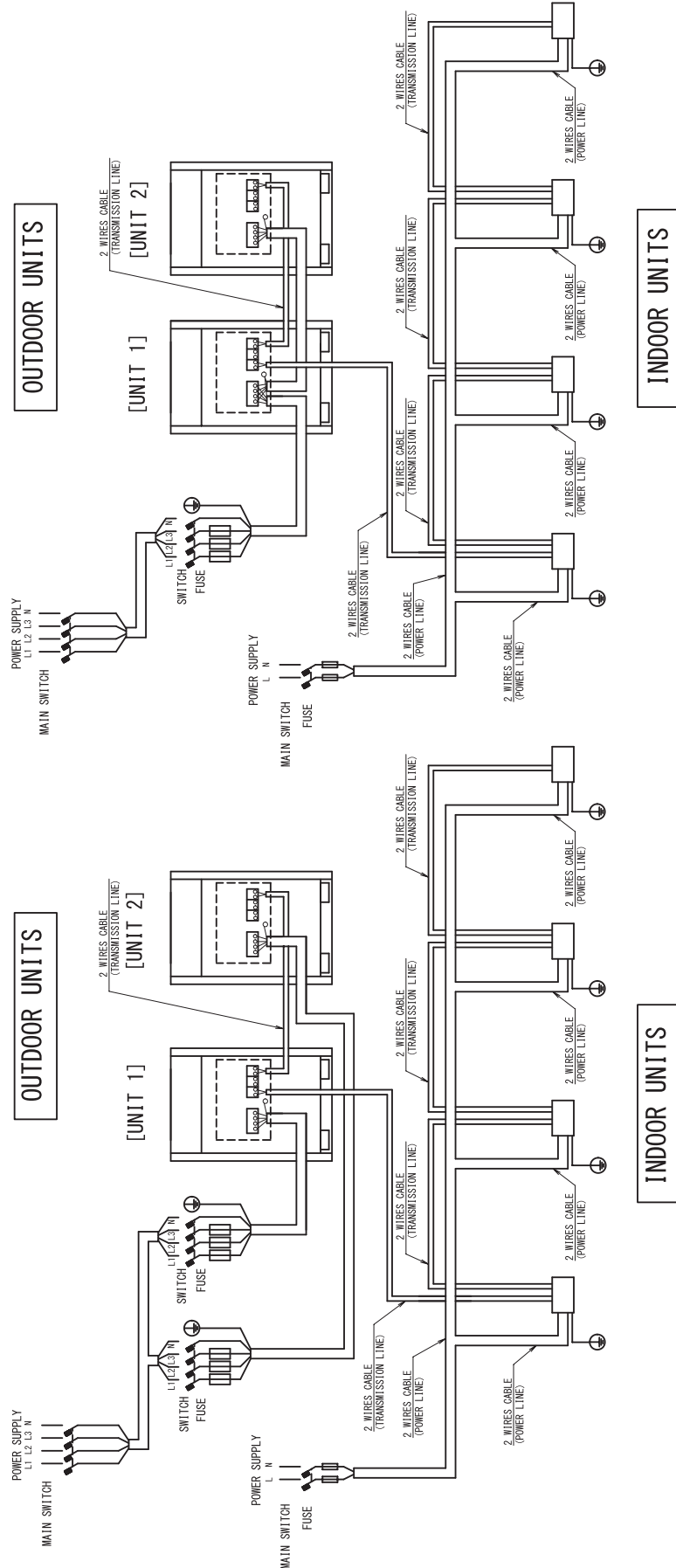
NOTES

- 1) ALL WIRING COMPONENTS AND MATERIALS TO BE PROCURED ON THE SITE MUST COMPLY WITH THE APPLICABLE LOCAL AND NATIONAL CODES.
 - 2) USE COPPER CONDUCTORS ONLY.
 - 3) AS FOR DETAILS, SEE WIRING DIAGRAM.
 - 4) INSTALL CIRCUIT BREAKER FOR SAFETY.
 - 5) ALL FIELD WIRING AND COMPONENTS MUST BE PROVIDED BY LICENSED ELECTRICIAN.
 - 6) UNIT SHALL BE GROUNDED IN COMPLIANCE WITH THE APPLICABLE LOCAL AND NATIONAL CODES.
 - 7) WIRING SHOWN ARE GENERAL POINTS-OF-CONNECTION GUIDES ONLY AND ARE NOT INTENDED FOR OR TO INCLUDE ALL DETAILS FOR A SPECIFIC INSTALLATION.
 - 8) FOR INDOOR UNITS, INSTALL ONE SWITCH AND ONE FUSE PER SYSTEM. (NOT PER INDOOR UNIT)
 - 9) INSTALL THE MAIN SWITCH THAT CAN INTERRUPT ALL THE POWER SOURCES IN AN INTEGRATED MANNER BECAUSE THIS SYSTEM CONSISTS OF THE EQUIPMENT UTILIZING THE MULTIPLE POWER SOURCES.
 - 10) THE CAPACITY OF UNIT 1 MUST BE LARGER THAN UNIT 2 WHEN THE POWER SOURCE IS CONNECTED IN SERIES BETWEEN THE UNITS.
 - 11) MUST INSTALL EARTH LEAKAGE CIRCUIT BREAKER.
 - 12) SINCE THIS PRODUCT IS EQUIPPED WITH AN INVERTER, HARMONICS WILL BE GENERATED.
- IF LOCAL LAWS REQUIRE THE SUPPRESSION OF HARMONICS ON THE BUILDING, PLEASE TAKE HARMONIC SUPPRESSION MEASURES ON THE ELECTRICAL EQUIPMENT SIDE.

< WHEN THE POWER SOURCE IS SUPPLIED TO EACH OUTDOOR UNIT INDIVIDUALLY >



< WHEN THE POWER SOURCE IS CONNECTED IN SERIES BETWEEN THE UNITS >

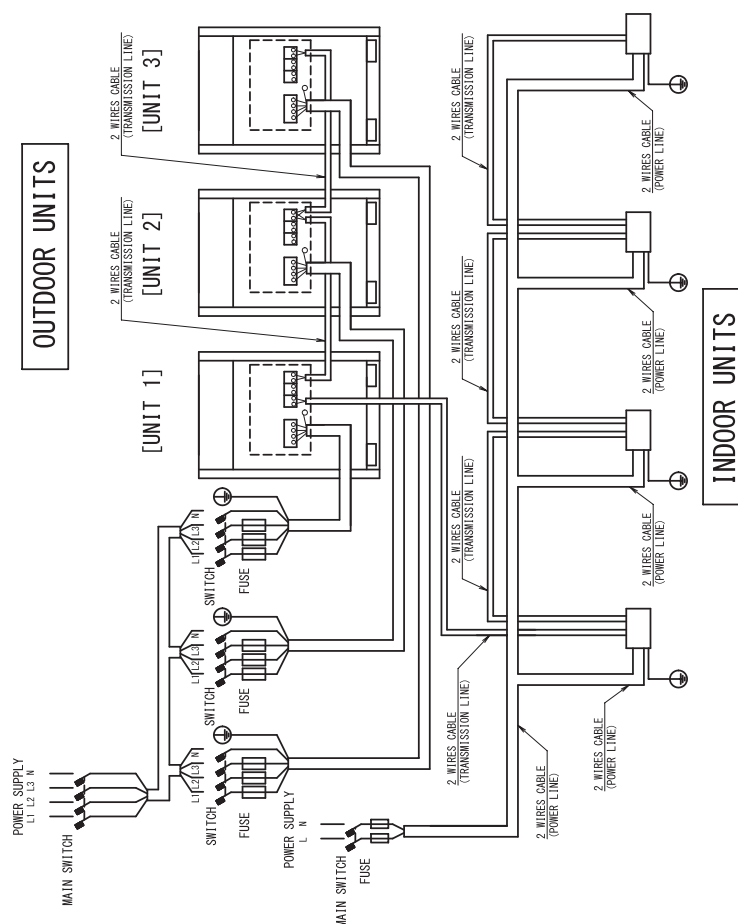


RXQ34ANRYFK / RXQ36ANRYFK / RXQ38ANRYFK / RXQ40ANRYFK / RXQ42ANRYFK / RXQ44ANRYFK / RXQ46ANRYFK / RXQ48ANRYFK

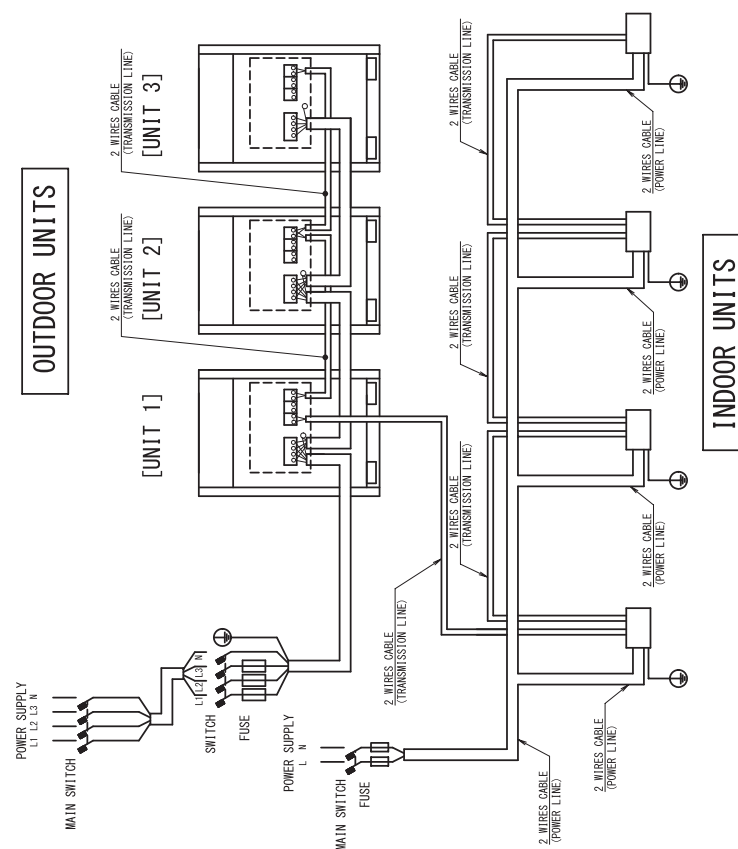
NOTES

- 1) ALL WIRING COMPONENTS AND MATERIALS TO BE PROCURED ON THE SITE MUST COMPLY WITH THE APPLICABLE LOCAL AND NATIONAL CODES.
- 2) USE COPPER CONDUCTORS ONLY.
- 3) AS FOR DETAILS, SEE WIRING DIAGRAM.
- 4) INSTALL CIRCUIT BREAKER FOR SAFETY.
- 5) ALL FIELD WIRING AND COMPONENTS MUST BE PROVIDED BY LICENSED ELECTRICIAN.
- 6) WIRING SHALL BE GROUNDED IN COMPLIANCE WITH THE APPLICABLE LOCAL AND NATIONAL CODES.
- 7) WIRING SHOWN ARE GENERAL POINTS-OF-CONNECTION ONLY AND ARE NOT INTENDED FOR OR TO INCLUDE ALL DETAILS FOR A SPECIFIC INSTALLATION.
- 8) FOR INDOOR UNITS, INSTALL ONE SWITCH AND ONE FUSE PER SYSTEM (NOT PER INDOOR UNIT)
- 9) INSTALL THE MAIN SWITCH THAT CAN INTERRUPT ALL THE POWER SOURCES IN AN INTEGRATED MANNER BECAUSE THIS SYSTEM CONSISTS OF THE EQUIPMENT UTILIZING THE MULTIPLE POWER SOURCES.
- 10) THE CAPACITY OF UNIT 1 MUST BE LARGER THAN UNIT 2 AND UNIT 2 MUST BE LARGER THAN UNIT 3 WHEN THE POWER SOURCE IS CONNECTED IN SERIES BETWEEN THE UNITS.
- 11) MUST INSTALL EARTH LEAKAGE CIRCUIT BREAKER.
- 12) SINCE THIS PRODUCT IS EQUIPPED WITH AN INVERTER, HARMONICS WILL BE GENERATED.
IF LOCAL LAWS REQUIRE THE SUPPRESSION OF HARMONICS ON THE BUILDING, PLEASE TAKE HARMONIC SUPPRESSION MEASURES ON THE ELECTRICAL EQUIPMENT SIDE.

〈 WHEN THE POWER SOURCE IS SUPPLIED TO EACH OUTDOOR UNIT INDIVIDUALLY.〉



〈 WHEN THE POWER SOURCE IS CONNECTED IN SERIES BETWEEN THE UNITS.〉



3D111513F

7. Electric Characteristics

RXQ6ARYFK / RXQ8ARYFK / RXQ10ARYFK / RXQ12ARYFK / RXQ14ARYFK / RXQ16ARYFK

MODEL		RXQ6ARYFK	RXQ8ARYFK	RXQ10ARYFK	RXQ12ARYFK	RXQ14ARYFK	RXQ16ARYFK
POWER SUPPLY	NAME	YF					
	PHASE	3N~					
	FREQUENCY	50/60					
	VOLTAGE	380-415					
CURRENT	50 Hz	400					
	60 Hz						
	NOMINAL RUNNING CURRENT (RLA) ^①	8.8	12.4	14.7	17.6	21.3	21.3
	MINIMUM CIRCUIT AMPS (MCA) ^②	16.1	21.2	26.9	26.9	38.9	38.9
VOLTAGE RANGE	MAXIMUM FUSE AMPS (MFA) ^③	20	25	30	30	45	45
	FULL LOAD AMPS(FLA) ^④	1.4	1.4	1.1+1.2	1.1+1.2	1.4+1.9	1.4+1.9
	50 Hz	380-415 ± 10%					
	60 Hz	400 ± 10%					
WIRING CONNECTIONS	FOR POWER SUPPLY	5					
	FOR CONNECTION WITH INDOOR	2 (F1/F2)					
POWER SUPPLY INTAKE		BOTH INDOOR AND OUTDOOR UNIT					

Symbols :

MCA : Min. Circuit Amps. (A)
MFA : Max. Fuse Amps. (A)
RLA : Rated Load Amps. (A)
FLA : Full load Amps. (A)

Notes :

- ① RLA is based on following conditions:
COOLING Indoor Temperature: 27° CDB / 19° CWB, Outdoor Temperature: 35° CDB.
② MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current.
③ MFA must be used to select the circuit breaker and the ground fault circuit interrupter(earth leakage circuit breaker).
④ FLA : Nominal Running Current Fan.

2. Voltage range: Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.

3. Maximum allowable voltage range variation between phases is 2%.

3D124907

RXQ18ANRYFK / RXQ20ANRYFK / RXQ22ANRYFK / RXQ24ANRYFK / RXQ26ANRYFK /
RXQ28ANRYFK / RXQ30ANRYFK / RXQ32ANRYFK / RXQ34ANRYFK / RXQ36ANRYFK /
RXQ38ANRYFK / RXQ40ANRYFK / RXQ42ANRYFK / RXQ44ANRYFK / RXQ46ANRYFK /
RXQ48ANRYFK

MODEL		RXQ18ANRYFK	RXQ20ANRYFK	RXQ22ANRYFK	RXQ24ANRYFK	RXQ26ANRYFK	RXQ28ANRYFK	RXQ30ANRYFK	RXQ32ANRYFK
COMBINATION	OUTDOOR UNIT MODULE 1	RXQ6ARYFK	RXQ8ARYFK	RXQ10ARYFK	RXQ12ARYFK	RXQ16ARYFK	RXQ12ARYFK	RXQ14ARYFK	RXQ16ARYFK
	OUTDOOR UNIT MODULE 2	RXQ12ARYFK	RXQ12ARYFK	RXQ12ARYFK	RXQ12ARYFK	RXQ16ARYFK	RXQ16ARYFK	RXQ16ARYFK	RXQ16ARYFK
	OUTDOOR UNIT MODULE 3								
POWER SUPPLY	NAME								
	PHASE								
	FREQUENCY								
CURRENT	VOLTAGE								
	NOMINAL RUNNING CURRENT (RLA) ^①								
	MINIMUM CIRCUIT AMPS (MCA) ^②								
VOLTAGE RANGE	MAXIMUM FUSE AMPS (MFA) ^③								
	FULL LOAD AMPS(FLA) ^④								
	50 Hz								
WIRING CONNECTIONS	60 Hz								
	FOR POWER SUPPLY								
	FOR CONNECTION WITH INDOOR								
POWER SUPPLY INTAKE	QUANTITY								
	QUANTITY								

MODEL		RXQ34ANRYFK	RXQ36ANRYFK	RXQ38ANRYFK	RXQ40ANRYFK	RXQ42ANRYFK	RXQ44ANRYFK	RXQ46ANRYFK	RXQ48ANRYFK
COMBINATION	OUTDOOR UNIT MODULE 1	RXQ10ARYFK	RXQ12ARYFK	RXQ12ARYFK	RXQ12ARYFK	RXQ12ARYFK	RXQ12ARYFK	RXQ14ARYFK	RXQ16ARYFK
	OUTDOOR UNIT MODULE 2	RXQ12ARYFK	RXQ12ARYFK	RXQ12ARYFK	RXQ12ARYFK	RXQ12ARYFK	RXQ12ARYFK	RXQ16ARYFK	RXQ16ARYFK
	OUTDOOR UNIT MODULE 3	RXQ12ARYFK	RXQ12ARYFK	RXQ16ARYFK	RXQ16ARYFK	RXQ16ARYFK	RXQ16ARYFK	RXQ16ARYFK	RXQ16ARYFK
POWER SUPPLY	NAME								
	PHASE								
	FREQUENCY								
CURRENT	VOLTAGE								
	NOMINAL RUNNING CURRENT (RLA) ^①								
	MINIMUM CIRCUIT AMPS (MCA) ^②								
VOLTAGE RANGE	MAXIMUM FUSE AMPS (MFA) ^③								
	FULL LOAD AMPS(FLA) ^④								
	50 Hz								
WIRING CONNECTIONS	60 Hz								
	FOR POWER SUPPLY								
	FOR CONNECTION WITH INDOOR								
POWER SUPPLY INTAKE	QUANTITY								
	QUANTITY								

Symbols :

MCA : Min. Circuit Amps. (A)
MFA : Max. Fuse Amps. (A)
RLA : Rated Load Amps. (A)
FLA : Full load Amps. (A)

Notes :

1. ① RLA is based on following conditions:
COOLING Indoor Temperature: 27° CDB / 19° CWB, Outdoor Temperature: 35° CDB.
② MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current.
③ MFA must be used to select the circuit breaker and the ground fault circuit interrupter(earth leakage circuit breaker).
④ FLA : Nominal Running Current Fans
⑤ For individual values of each units, please refer drawing no. 3D124907.

2. Voltage range: Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.

3. Maximum allowable voltage range variation between phases is 2%.

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8. Safety Devices Setting

Safety devices		RXQ6ARYFK	RXQ8ARYFK	RXQ10ARYFK	RXQ12ARYFK
Printed circuit board fuse	A1P	250 V, 3.15 A			
	A2P	500 V, 40 A		600 V, 63 A	
	A3P	650 V, 1 A			
	A4P	650 V, 8 A			
	A5P	—			
	A6P	—			
	A7P	—			
High pressure switch	S1PH	OFF 4.0 ⁺⁰ _{-0.12} MPa ON 3.0±0.15 MPa			
	S2PH	—			
Overload protector	M1C	17.0 A		27.5 A	
	M2C	—			
	M1F	2.27 A			
	M2F	—			
	Electronic expansion valve (Injection)	Y2E	Fully closed : 0 pls Full open: 480 pls		
Electronic expansion valve (Refrigerant auto charge)	Y4E	Fully closed : 0 pls Full open: 480 pls			

Safety devices		RXQ14ARYFK	RXQ16ARYFK
Printed circuit board fuse	A1P	250 V, 3.15 A	
	A2P	600 V, 63 A	500 V, 40 A
	A3P	650 V, 1 A	
	A4P	650 V, 8 A	
	A5P	—	500 V, 40 A
	A6P	—	650 V, 1 A
	A7P	650 V, 8 A	
High pressure switch	S1PH	OFF 4.0 $\pm$ 0.12 MPa ON 3.0 $\pm$ 0.15 MPa	
	S2PH	—	OFF 4.0 MPa ON 3.0 $\pm$ 0.15 MPa
Overload protector	M1C	27.5 A	17.0 A
	M2C	—	17.0 A
	M1F	2.52 A	
	M2F	2.52 A	
Electronic expansion valve (Injection)	Y2E	Fully closed : 0 pls Full open: 480 pls	
Electronic expansion valve (Refrigerant auto charge)	Y4E	Fully closed : 0 pls Full open: 480 pls	

9. Capacity Tables (Standard Type)

9.1 Cooling Capacity for VRV Indoor Units Only (VRT)

RXQ6ARYFK Cooling capacity for VRV indoor units only (VRT)

Capacity ratio (%)	Outdoor air temp.	Indoor air temp. (°CWB)															
		14		16		18		19		20		22		24			
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI		
130%	°CDB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
	10	18.1	2.77	19.3	2.80	20.2	2.85	20.5	2.61	20.7	2.89	21.2	2.93	21.6	2.98		
	12	17.9	2.86	19.1	2.89	19.9	2.94	20.2	2.70	20.4	2.98	20.9	3.04	21.3	3.09		
	14	17.7	2.95	18.8	2.99	19.6	3.04	19.9	2.80	20.1	3.09	20.6	3.15	21.0	3.20		
	16	17.5	3.05	18.6	3.10	19.4	3.15	19.6	2.90	19.8	3.20	20.3	3.26	20.8	3.32		
	18	17.3	3.17	18.4	3.21	19.1	3.27	19.3	3.00	19.5	3.32	20.0	3.38	20.5	3.45		
	20	17.1	3.28	18.1	3.33	18.8	3.39	19.0	3.11	19.3	3.44	19.7	3.51	20.2	3.58		
	21	17.0	3.35	18.0	3.39	18.6	3.45	18.9	3.17	19.1	3.51	19.6	3.58	20.0	3.65		
	23	16.8	3.47	17.8	3.52	18.4	3.58	18.6	3.30	18.8	3.64	19.3	3.71	19.7	3.79		
	25	16.6	3.61	17.5	3.66	18.1	3.72	18.3	3.42	18.5	3.78	19.0	3.86	19.4	3.93		
	27	16.4	3.76	17.2	3.81	17.8	3.87	18.0	3.56	18.2	3.93	18.7	4.01	19.2	4.08		
	29	16.1	3.91	17.0	3.96	17.5	4.03	17.7	3.70	17.9	4.09	18.4	4.16	18.9	4.24		
	31	15.9	4.07	16.7	4.12	17.2	4.19	17.4	3.85	17.7	4.25	18.1	4.33	18.6	4.41		
	33	15.7	4.24	16.4	4.29	16.9	4.35	17.1	4.00	17.4	4.42	17.8	4.49	18.3	4.58		
	35	15.5	4.41	16.2	4.46	16.6	4.53	16.8	4.16	17.1	4.59	17.5	4.67	18.0	4.75		
	37	15.2	4.59	15.9	4.65	16.3	4.71	16.5	4.33	16.8	4.78	17.2	4.85	17.7	4.93		
	39	15.0	4.78	15.6	4.84	16.0	4.90	16.2	4.50	16.5	4.96	16.9	5.04	17.4	5.12		
	41	14.7	4.98	15.3	5.03	15.7	5.10	16.0	4.68	16.2	5.16	16.6	5.24	16.9	5.32		
	43	13.8	5.18	14.0	5.22	14.2	4.80	15.7	4.22	16.0	4.43	16.3	4.11	16.7	3.88		
	46	10.8	4.10	11.0	3.83	11.1	3.52	14.8	3.12	14.8	3.27	14.9	3.05	15.0	2.93		
48	8.84	3.30	8.95	3.10	9.06	2.85	11.3	2.53	11.4	2.66	11.5	2.47	11.5	2.37			
50	8.84	2.58	8.95	2.46	9.06	2.27	9.12	1.95	9.18	2.11	9.29	1.94	9.41	1.83			
120%	10	17.6	2.76	18.8	2.79	19.7	2.83	20.1	2.60	20.5	2.87	20.9	2.92	21.3	2.97		
	12	17.4	2.85	18.6	2.88	19.5	2.93	19.9	2.69	20.1	2.97	20.6	3.02	21.0	3.07		
	14	17.2	2.94	18.3	2.98	19.2	3.03	19.6	2.78	19.8	3.07	20.3	3.13	20.7	3.19		
	16	17.0	3.05	18.1	3.09	19.0	3.14	19.3	2.88	19.6	3.18	20.0	3.24	20.4	3.30		
	18	16.8	3.16	17.9	3.20	18.7	3.25	19.0	2.99	19.3	3.30	19.7	3.36	20.1	3.43		
	20	16.6	3.28	17.7	3.32	18.5	3.37	18.8	3.10	19.0	3.43	19.4	3.49	19.8	3.56		
	21	16.5	3.34	17.6	3.38	18.3	3.44	18.6	3.16	18.8	3.49	19.2	3.56	19.7	3.63		
	23	16.3	3.47	17.3	3.51	18.1	3.57	18.3	3.28	18.5	3.63	19.0	3.69	19.4	3.77		
	25	16.1	3.60	17.1	3.65	17.8	3.71	18.0	3.41	18.2	3.77	18.7	3.84	19.1	3.91		
	27	15.9	3.74	16.9	3.79	17.5	3.85	17.7	3.54	18.0	3.92	18.4	3.99	18.8	4.06		
	29	15.7	3.90	16.6	3.94	17.2	4.01	17.5	3.68	17.7	4.07	18.1	4.14	18.5	4.22		
	31	15.5	4.05	16.4	4.10	17.0	4.17	17.2	3.83	17.4	4.23	17.8	4.31	18.2	4.39		
	33	15.3	4.22	16.1	4.27	16.7	4.34	16.9	3.98	17.1	4.40	17.5	4.48	17.9	4.56		
	35	15.1	4.39	15.9	4.44	16.4	4.51	16.6	4.14	16.8	4.58	17.2	4.65	17.6	4.73		
	37	14.8	4.57	15.6	4.63	16.1	4.69	16.3	4.31	16.5	4.76	16.9	4.83	17.3	4.91		
	39	14.6	4.76	15.3	4.81	15.8	4.88	16.0	4.48	16.2	4.95	16.6	5.02	17.0	5.10		
	41	14.4	4.95	15.1	5.01	15.5	5.08	15.7	4.66	15.9	5.14	16.3	5.21	16.7	5.29		
	43	13.7	5.16	13.9	5.21	14.1	4.89	15.7	4.29	15.9	4.51	16.3	4.18	16.7	3.96		
	46	10.8	4.21	10.9	3.92	11.1	3.61	14.8	3.19	14.8	3.35	14.9	3.12	14.9	2.99		
	48	8.82	3.36	8.93	3.15	9.05	2.89	11.3	2.56	11.4	2.69	11.4	2.50	11.4	2.39		
50	8.82	2.61	8.93	2.45	9.05	2.24	9.11	1.94	9.16	2.07	9.28	1.91	9.39	1.81			
110%	10	17.0	2.75	18.2	2.78	19.2	2.82	19.6	2.59	20.0	2.86	20.5	2.91	20.9	2.95		
	12	16.8	2.84	18.0	2.87	19.0	2.91	19.4	2.68	19.7	2.96	20.2	3.01	20.6	3.06		
	14	16.6	2.93	17.8	2.97	18.7	3.01	19.1	2.77	19.5	3.06	19.9	3.11	20.3	3.17		
	16	16.5	3.04	17.6	3.07	18.5	3.12	18.9	2.87	19.2	3.17	19.7	3.23	20.0	3.29		
	18	16.3	3.15	17.4	3.18	18.3	3.24	18.6	2.97	18.9	3.29	19.4	3.35	19.7	3.41		
	20	16.1	3.26	17.2	3.30	18.0	3.36	18.4	3.09	18.7	3.41	19.1	3.47	19.5	3.54		
	21	16.0	3.32	17.1	3.37	17.9	3.42	18.2	3.14	18.5	3.47	18.9	3.54	19.3	3.61		
	23	15.8	3.45	16.9	3.50	17.7	3.55	18.0	3.26	18.2	3.61	18.6	3.67	19.0	3.75		
	25	15.6	3.59	16.6	3.63	17.4	3.69	17.7	3.39	18.0	3.75	18.3	3.82	18.7	3.89		
	27	15.4	3.73	16.4	3.78	17.2	3.84	17.5	3.53	17.7	3.90	18.1	3.97	18.4	4.04		
	29	15.2	3.88	16.2	3.93	16.9	3.99	17.2	3.67	17.4	4.05	17.8	4.12	18.1	4.20		
	31	15.0	4.04	16.0	4.09	16.6	4.15	16.9	3.81	17.1	4.21	17.5	4.29	17.9	4.36		
	33	14.8	4.20	15.7	4.25	16.4	4.32	16.6	3.97	16.8	4.38	17.2	4.46	17.6	4.53		
	35	14.6	4.37	15.5	4.43	16.1	4.49	16.3	4.13	16.5	4.56	16.9	4.63	17.3	4.71		
	37	14.4	4.55	15.3	4.61	15.8	4.68	16.0	4.29	16.2	4.74	16.6	4.82	17.0	4.89		
	39	14.2	4.74	15.0	4.80	15.5	4.87	15.7	4.47	15.9	4.93	16.3	5.01	16.7	5.08		
	41	14.0	4.93	14.7	4.99	15.2	5.06	15.4	4.65	15.6	5.13	16.0	5.05	16.4	5.12		
	43	13.7	5.13	13.9	5.19	14.1	5.02	15.1	4.60	15.1	4.62	15.1	4.28	15.2	4.06		
	46	10.8	4.33	10.9	4.02	11.1	3.71	14.7	3.27	14.8	3.45	14.8	3.22	14.9	3.07		
	48	8.81	3.44	8.92	3.21	9.04	2.96	11.3	2.62	11.3	2.76	11.3	2.57	11.4	2.45		
50	8.81	2.65	8.92	2.48	9.04	2.27	9.10	1.97	9.15	2.10	9.27	1.94	9.38	1.85			
100%	10	15.8	2.72	17.6	2.76	18.6	2.80	19.0	2.57	19.4	2.84	20.1	2.88	20.6	2.93		
	12	15.8	2.81	17.4	2.85	18.4	2.89	18.8	2.65	19.2	2.93	19.8	2.98	20.3	3.03		
	14	15.8	2.91	17.2	2.94	18.1	2.99	18.6	2.74	18.9	3.03	19.6	3.08	20.0	3.14		
	16	15.8	3.01	17.0	3.05	17.9	3.09	18.3	2.84	18.7	3.14	19.3	3.19	19.7	3.25		</

RXQ8ARYFK Cooling capacity for VRV indoor units only (VRT)

Capacity ratio (%)	Outdoor air temp.	Indoor air temp. (°CWB)															
		14		16		18		19		20		22		24			
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI		
130%	°CDB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	
	10	19.7	3.09	23.5	3.84	27.2	4.42	28.2	4.16	28.6	4.40	29.5	4.18	30.3	3.95		
	12	19.7	3.15	23.5	3.91	27.2	4.50	27.9	4.14	28.3	4.38	29.1	4.16	29.9	4.16		
	14	19.7	3.21	23.5	3.98	27.2	4.57	27.5	4.12	27.9	4.35	28.7	4.36	29.6	4.40		
	16	19.7	3.27	23.5	4.05	26.8	4.54	27.1	4.15	27.5	4.53	28.4	4.59	29.2	4.63		
	18	19.7	3.32	23.5	4.14	26.4	4.72	26.8	4.36	27.2	4.77	28.0	4.82	28.9	4.87		
	20	19.7	3.39	23.5	4.40	26.0	4.95	26.4	4.58	26.8	5.00	27.7	5.06	28.5	5.11		
	21	19.7	3.48	23.5	4.56	25.8	5.06	26.2	4.68	26.6	5.11	27.5	5.17	28.3	5.24		
	23	19.7	3.73	23.5	4.88	25.5	5.29	25.8	4.90	26.3	5.34	27.1	5.41	27.9	5.48		
	25	19.7	3.98	23.5	5.22	25.1	5.52	25.5	5.12	25.9	5.58	26.7	5.65	27.6	5.72		
	27	19.7	4.24	23.5	5.58	24.8	5.76	25.1	5.33	25.5	5.81	26.4	5.90	27.2	5.97		
	29	19.7	4.53	23.5	5.96	24.4	5.99	24.8	5.55	25.2	6.06	26.0	6.14	26.9	6.21		
	31	19.7	4.82	23.3	6.29	24.0	6.22	24.4	5.76	24.8	6.30	25.6	6.38	26.5	6.46		
	33	19.7	5.13	23.0	6.53	23.7	6.47	24.0	5.98	24.4	6.54	25.3	6.62	26.1	6.70		
	35	19.7	5.46	22.6	6.77	23.3	6.70	23.7	6.21	24.1	6.78	24.9	6.86	25.8	6.95		
	37	19.7	5.81	22.2	7.01	22.9	6.94	23.3	6.43	23.7	7.02	24.6	7.11	25.4	7.21		
39	19.7	6.17	21.9	7.25	22.6	7.18	22.9	6.65	23.4	7.26	24.2	7.37	25.0	7.46			
41	19.7	6.67	21.5	7.83	22.2	7.65	22.6	7.02	23.0	7.76	23.8	7.88	24.7	7.90			
43	19.7	7.12	21.1	8.98	21.8	8.89	22.2	8.24	22.6	9.01	23.5	9.14	24.3	9.26			
46	19.7	8.84	20.6	9.36	20.7	9.17	21.4	8.55	21.8	9.34	22.6	9.47	23.4	9.61			
48	15.5	6.70	15.9	7.09	16.3	7.18	16.5	6.72	16.7	7.40	17.1	7.64	17.5	7.90			
50	12.5	5.35	12.6	5.50	12.6	5.41	12.7	5.00	12.7	5.43	12.8	5.47	12.8	5.49			
120%	10	18.1	2.84	21.7	3.51	25.1	4.04	26.9	4.03	28.2	4.53	29.0	4.32	29.7	4.11		
	12	18.1	2.90	21.7	3.58	25.1	4.12	26.9	4.10	27.8	4.50	28.6	4.30	29.4	4.13		
	14	18.1	2.94	21.7	3.64	25.1	4.19	26.9	4.17	27.5	4.48	28.2	4.32	29.0	4.37		
	16	18.1	3.00	21.7	3.71	25.1	4.27	26.7	4.21	27.1	4.50	27.9	4.55	28.6	4.60		
	18	18.1	3.05	21.7	3.78	25.1	4.41	26.3	4.34	26.7	4.73	27.5	4.78	28.3	4.84		
	20	18.1	3.10	21.7	3.93	25.1	4.74	26.0	4.55	26.4	4.96	27.1	5.02	27.9	5.08		
	21	18.1	3.14	21.7	4.07	25.1	4.90	25.8	4.66	26.2	5.08	27.0	5.14	27.7	5.20		
	23	18.1	3.35	21.7	4.36	25.1	5.26	25.4	4.87	25.8	5.31	26.6	5.38	27.4	5.44		
	25	18.1	3.58	21.7	4.65	24.7	5.50	25.1	5.08	25.5	5.55	26.2	5.61	27.0	5.68		
	27	18.1	3.81	21.7	4.97	24.4	5.73	24.7	5.30	25.1	5.78	25.9	5.85	26.6	5.92		
	29	18.1	4.06	21.7	5.30	24.0	5.96	24.3	5.51	24.7	6.02	25.5	6.09	26.3	6.16		
	31	18.1	4.32	21.7	5.65	23.6	6.19	24.0	5.73	24.4	6.25	25.1	6.33	25.9	6.40		
	33	18.1	4.60	21.7	6.03	23.3	6.42	23.6	5.94	24.0	6.49	24.8	6.57	25.5	6.64		
	35	18.1	4.89	21.7	6.42	22.9	6.66	23.2	6.16	23.6	6.72	24.4	6.81	25.2	6.90		
	37	18.1	5.20	21.7	6.84	22.5	6.89	22.9	6.38	23.3	6.96	24.0	7.06	24.8	7.14		
	39	18.1	5.52	21.5	7.20	22.2	7.13	22.5	6.60	22.9	7.20	23.7	7.30	24.4	7.39		
41	18.1	6.84	21.2	8.69	21.8	8.59	22.1	7.97	22.5	8.70	23.3	8.80	24.1	8.92			
43	18.1	7.24	20.8	8.93	21.4	8.84	21.8	8.19	22.2	8.94	22.9	9.06	23.7	9.18			
46	18.1	7.88	20.3	9.30	20.4	9.11	21.0	8.48	21.4	9.27	22.1	9.39	22.8	9.52			
48	15.4	6.65	15.8	7.03	16.2	7.11	16.4	6.65	16.6	7.33	16.9	7.57	17.3	7.82			
50	12.5	5.32	12.5	5.47	12.6	5.38	12.6	4.97	12.7	5.41	12.7	5.44	12.8	5.47			
110%	10	16.8	2.60	19.9	3.20	23.0	3.67	24.6	3.65	26.5	4.31	28.4	4.46	29.2	4.28		
	12	16.8	2.64	19.9	3.26	23.0	3.74	24.6	3.72	26.5	4.38	28.1	4.44	28.8	4.24		
	14	16.8	2.69	19.9	3.31	23.0	3.81	24.6	3.79	26.5	4.46	27.7	4.41	28.4	4.33		
	16	16.8	2.74	19.9	3.37	23.0	3.88	24.6	3.86	26.5	4.55	27.4	4.52	28.1	4.56		
	18	16.8	2.78	19.9	3.44	23.0	3.95	24.6	3.96	26.3	4.71	27.0	4.76	27.7	4.80		
	20	16.8	2.83	19.9	3.50	23.0	4.18	24.6	4.25	25.9	4.93	26.6	4.99	27.3	5.03		
	21	16.8	2.86	19.9	3.61	23.0	4.33	24.6	4.41	25.7	5.04	26.4	5.10	27.1	5.15		
	23	16.8	2.99	19.9	3.87	23.0	4.64	24.6	4.71	25.4	5.27	26.1	5.33	26.8	5.39		
	25	16.8	3.18	19.9	4.13	23.0	4.96	24.6	5.05	25.0	5.52	25.7	5.57	26.4	5.63		
	27	16.8	3.40	19.9	4.41	23.0	5.29	24.3	5.26	24.6	5.75	25.3	5.80	26.1	5.86		
	29	16.8	3.62	19.9	4.69	23.0	5.65	23.9	5.48	24.3	5.98	25.0	6.04	25.7	6.10		
	31	16.8	3.85	19.9	5.01	23.0	6.03	23.6	5.69	23.9	6.20	24.6	6.27	25.3	6.34		
	33	16.8	4.09	19.9	5.32	22.9	6.39	23.2	5.91	23.5	6.45	24.3	6.52	25.0	6.59		
	35	16.8	4.35	19.9	5.67	22.5	6.62	22.8	6.12	23.2	6.68	23.9	6.76	24.6	6.83		
	37	16.8	4.61	19.9	6.03	22.1	6.85	22.5	6.33	22.8	6.92	23.5	7.00	24.2	7.08		
	39	16.8	4.90	19.9	6.42	21.8	7.09	22.1	6.56	22.5	7.16	23.2	7.24	23.9	7.32		
41	16.8	5.07	19.9	7.06	21.4	8.54	21.7	7.90	22.1	8.63	22.8	8.73	23.5	8.84			
43	16.8	6.42	19.9	8.43	21.1	8.78	21.4	8.12	21.7	8.87	22.4	8.98	23.1	9.09			
46	16.8	6.97	19.9	9.18	20.0	9.06	20.6	8.43	20.9	9.20	21.6	9.31	22.3	9.43			
48	15.3	6.58	15.7	6.95	16.1	7.03	16.2	6.58	16.4	7.25	16.8	7.49	17.2	7.74			
50	12.4	5.30	12.5	5.44	12.6	5.36	12.6	4.95	12.6	5.38	12.7	5.41	12.7	5.45			
100%	10	15.1	2.36	18.0	2.89	20.9	3.31	22.4	3.29	24.1	3.87	27.6	4.49	28.6	4.43		
	12	15.1	2.40	18.0	2.94	20.9	3.37	22.4	3.35	24.1	3.94	27.6	4.56	28.2	4.40		
	14	15.1	2.44	18.0	3.00	20.9	3.43	22.4	3.41	24.1	4.01	27.2	4.55	27.8	4.38		
	16	15.1	2.48	18.0	3.04	20.9	3.50	22.4	3.47	24.1	4.09	26.8	4.53	27.5	4.53		
	18	15.1	2.52	18.0	3.10	20.9	3.56	22.4	3.54	24.1	4.17	26.5	4.72	27.1	4.76		
	20	15.1	2.56	18.0	3.16	20.9	3.66	22.4	3.71	24.1	4.48	26.1	4.95	26.8	5.00		
	21	15.1	2.59	18.0	3.20	20.9	3.79	22.4	3.85	24.1	4.63	25.9	5.07	26.6	5.11		
	23	15.1	2.66	18.0	3.40	20.9	4.05	22.4	4.11	24.1	4.96	25.6	5.30	26.2	5.34		
	25	15.1	2.83	18.0	3.63	20.9	4.33	22.4	4.40	24.1	5.31	25.2	5.53	25.8	5.57		
	27	15.1	3.01	18.0	3.87	20.9	4.										

RXQ10ARYFK Cooling capacity for VRV indoor units only (VRT)

Capacity ratio (%)	Outdoor air temp.	Indoor air temp. (°CWB)															
		14		16		18		19		20		22		24			
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI		
130%	°CDB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	
	10	24.6	3.71	29.3	4.50	34.0	5.29	35.3	4.96	35.8	5.28	36.8	5.01	37.9	4.74		
	12	24.6	3.78	29.3	4.58	34.0	5.38	34.8	4.93	35.3	5.25	36.4	4.97	37.4	4.99		
	14	24.6	3.84	29.3	4.67	34.0	5.47	34.4	4.91	34.9	5.21	35.9	5.21	37.0	5.27		
	16	24.6	3.91	29.3	4.76	33.4	5.45	33.9	4.95	34.4	5.42	35.5	5.49	36.5	5.56		
	18	24.6	3.98	29.3	4.84	33.0	5.65	33.4	5.20	34.0	5.71	35.0	5.77	36.1	5.84		
	20	24.6	4.06	29.3	5.16	32.5	5.92	33.0	5.46	33.5	5.99	34.6	6.06	35.6	6.13		
	21	24.6	4.16	29.3	5.34	32.3	6.06	32.8	5.59	33.3	6.13	34.3	6.20	35.4	6.27		
	23	24.6	4.46	29.3	5.73	31.8	6.33	32.3	5.84	32.8	6.40	33.9	6.48	34.9	6.56		
	25	24.6	4.76	29.3	6.13	31.4	6.62	31.9	6.10	32.4	6.68	33.4	6.76	34.5	6.85		
	27	24.6	5.08	29.3	6.54	30.9	6.90	31.4	6.36	31.9	6.96	33.0	7.06	34.0	7.14		
	29	24.6	5.41	29.3	6.99	30.5	7.17	30.9	6.61	31.5	7.26	32.5	7.34	33.6	7.44		
	31	24.6	5.78	29.2	7.38	30.0	7.45	30.5	6.87	31.0	7.54	32.1	7.63	33.1	7.73		
	33	24.6	6.14	28.7	7.66	29.6	7.74	30.0	7.13	30.6	7.82	31.6	7.93	32.7	8.04		
	35	24.6	6.54	28.3	7.94	29.1	8.02	29.6	7.39	30.1	8.12	31.1	8.22	32.2	8.33		
	37	24.6	6.95	27.8	8.21	28.7	8.30	29.1	7.66	29.6	8.40	30.7	8.51	31.7	8.64		
	39	24.6	7.40	27.3	8.49	28.2	8.59	28.7	7.92	29.2	8.69	30.2	8.81	31.3	8.93		
	41	24.6	7.93	26.9	8.76	27.7	8.85	28.2	8.20	28.7	8.90	29.8	9.01	30.8	9.12		
	43	24.6	10.1	26.7	11.0	26.9	11.0	27.0	10.1	27.2	11.0	27.6	11.0	28.3	11.1		
	46	24.6	11.0	25.5	11.3	25.6	11.3	26.2	10.4	26.6	11.4	27.0	11.5	27.8	11.7		
	48	20.8	9.14	21.6	9.67	22.1	10.0	22.4	9.32	22.7	10.3	23.2	10.7	23.7	11.0		
50	17.3	7.51	17.3	7.55	17.4	7.59	17.4	6.98	17.5	7.63	17.6	7.68	17.6	7.72			
120%	10	22.7	3.41	27.1	4.12	31.4	4.84	33.6	4.79	35.2	5.41	36.2	5.17	37.2	4.93		
	12	22.7	3.46	27.1	4.21	31.4	4.93	33.6	4.88	34.8	5.39	35.7	5.14	36.7	4.94		
	14	22.7	3.53	27.1	4.28	31.4	5.02	33.6	4.97	34.3	5.36	35.3	5.17	36.3	5.23		
	16	22.7	3.59	27.1	4.36	31.4	5.11	33.4	5.01	33.9	5.40	34.8	5.44	35.8	5.51		
	18	22.7	3.66	27.1	4.44	31.4	5.27	32.9	5.18	33.4	5.67	34.4	5.73	35.3	5.79		
	20	22.7	3.72	27.1	4.61	31.4	5.66	32.5	5.43	33.0	5.95	33.9	6.01	34.9	6.09		
	21	22.7	3.75	27.1	4.77	31.4	5.87	32.2	5.56	32.7	6.08	33.7	6.15	34.7	6.23		
	23	22.7	4.01	27.1	5.10	31.4	6.29	31.8	5.80	32.3	6.36	33.2	6.43	34.2	6.51		
	25	22.7	4.27	27.1	5.45	30.9	6.58	31.3	6.06	31.8	6.65	32.8	6.71	33.7	6.79		
	27	22.7	4.56	27.1	5.83	30.4	6.85	30.9	6.31	31.4	6.93	32.3	7.00	33.3	7.09		
	29	22.7	4.86	27.1	6.22	30.0	7.13	30.4	6.57	30.9	7.20	31.9	7.29	33.8	7.38		
	31	22.7	5.18	27.1	6.63	29.5	7.41	30.0	6.83	30.4	7.48	31.4	7.57	32.4	7.67		
	33	22.7	5.51	27.1	7.07	29.1	7.69	29.5	7.09	30.0	7.78	31.0	7.87	31.9	7.97		
	35	22.7	5.85	27.1	7.53	28.6	7.97	29.1	7.35	29.5	8.06	30.5	8.15	31.5	8.26		
	37	22.7	6.22	27.1	8.01	28.2	8.25	28.6	7.61	29.1	8.34	30.0	8.44	31.0	8.56		
	39	22.7	6.61	26.9	8.45	27.7	8.54	28.1	7.87	28.6	8.63	29.6	8.74	30.6	8.85		
	41	22.7	8.51	26.5	10.6	27.3	10.7	27.3	9.79	28.2	10.8	29.1	10.9	30.1	11.1		
	43	22.7	8.99	26.3	10.9	26.4	10.9	26.7	10.0	27.2	10.9	27.5	10.9	28.2	11.0		
	46	22.7	9.76	25.5	11.3	25.6	11.3	26.1	10.4	26.6	11.4	27.0	11.5	27.8	11.7		
	48	20.8	9.14	21.6	9.67	22.1	10.0	22.4	9.32	22.7	10.3	23.2	10.7	23.7	11.0		
	50	17.2	7.49	17.3	7.55	17.4	7.59	17.4	6.98	17.5	7.63	17.6	7.67	17.6	7.72		
110%	10	20.8	3.12	24.8	3.76	28.8	4.40	30.8	4.36	33.2	5.15	35.6	5.34	36.4	5.12		
	12	20.8	3.16	24.8	3.82	28.8	4.47	30.8	4.43	33.2	5.25	35.1	5.30	36.0	5.08		
	14	20.8	3.22	24.8	3.89	28.8	4.56	30.8	4.51	33.2	5.34	34.6	5.28	35.5	5.19		
	16	20.8	3.27	24.8	3.96	28.8	4.64	30.8	4.60	33.2	5.45	34.2	5.41	35.1	5.47		
	18	20.8	3.33	24.8	4.03	28.8	4.73	30.8	4.72	32.8	5.63	33.7	5.69	34.6	5.74		
	20	20.8	3.39	24.8	4.11	28.8	5.00	30.8	5.07	32.4	5.91	33.3	5.96	34.2	6.03		
	21	20.8	3.42	24.8	4.23	28.8	5.18	30.8	5.24	32.2	6.05	33.0	6.10	33.9	6.17		
	23	20.8	3.58	24.8	4.52	28.8	5.55	30.8	5.62	31.7	6.32	32.6	6.39	33.5	6.45		
	25	20.8	3.82	24.8	4.84	28.8	5.93	30.8	6.02	31.2	6.60	32.1	6.67	33.0	6.74		
	27	20.8	4.07	24.8	5.16	28.8	6.33	30.3	6.27	30.8	6.88	31.7	6.95	32.6	7.03		
	29	20.8	4.33	24.8	5.50	28.8	6.77	29.9	6.53	30.3	7.15	31.2	7.23	32.1	7.31		
	31	20.8	4.61	24.8	5.87	28.8	7.22	29.4	6.79	29.9	7.43	30.8	7.51	31.7	7.60		
	33	20.8	4.89	24.8	6.24	28.6	7.64	29.0	7.03	29.4	7.72	30.3	7.80	31.2	7.90		
	35	20.8	5.20	24.8	6.64	28.1	7.92	28.5	7.29	29.0	8.00	29.9	8.09	30.7	8.18		
	37	20.8	5.53	24.8	7.07	27.7	8.19	28.1	7.55	28.5	8.28	29.4	8.37	30.3	8.47		
	39	20.8	5.87	24.8	7.52	27.2	8.48	27.6	7.81	28.1	8.56	28.9	8.67	29.8	8.77		
	41	20.8	7.54	24.8	9.68	26.6	10.6	27.0	9.72	27.6	10.7	28.5	10.9	29.4	11.0		
	43	20.8	7.96	24.8	10.2	26.3	10.9	26.7	9.95	27.2	11.0	27.5	11.1	28.2	11.3		
	46	20.8	8.65	25.5	11.3	25.6	11.3	26.1	10.4	26.5	11.4	27.0	11.5	27.8	11.7		
	48	20.8	9.14	21.6	9.67	22.1	10.0	22.4	9.32	22.7	10.3	23.2	10.7	23.7	11.0		
	50	17.2	7.49	17.3	7.54	17.4	7.58	17.4	6.97	17.5	7.62	17.5	7.66	17.6	7.71		
100%	10	18.9	2.82	22.6	3.39	26.2	3.97	28.0	3.92	30.2	4.63	34.5	5.37	35.7	5.30		
	12	18.9	2.87	22.6	3.45	26.2	4.04	28.0	3.99	30.2	4.72	34.5	5.47	35.3	5.27		
	14	18.9	2.92	22.6	3.51	26.2	4.11	28.0	4.07	30.2	4.81	34.0	5.44	34.8	5.24		
	16	18.9	2.96	22.6	3.58	26.2	4.18	28.0	4.14	30.2	4.89	33.5	5.41	34.3	5.43		
	18	18.9	3.02	22.6	3.64	26.2	4.26	28.0	4.22	30.2	4.99	33.1	5.64	33.9	5.71		
	20	18.9	3.07	22.6	3.71	26.2	4.38	28.0	4.42	30.2	5.36	32.6	5.93	33.4	5.98		
	21	18.9	3.11	22.6	3.75	26.2	4.53	28.0	4.57	30.2	5.55	32.4	6.06	33.2	6.12		
	23	18.9	3.18	22.6	3.99	26.2	4.85	28.0	4.90	30.2	5.95	31.9	6.34	32.8	6.40		
	25	18.9	3.39	22.6	4.25	26.2	5.18	28.0	5.24	30.2	6.36	31.5	6.62	32.3	6.69		
	27	18.9	3.61	22.6	4.54	26.2	5.53										

RXQ12ARYFK Cooling capacity for VRV indoor units only (VRT)

Capacity ratio (%)	Outdoor air temp. °CDB	Indoor air temp. (°CWB)															
		14		16		18		19		20		22		24			
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI		
130%	10	29.4	4.37	35.1	5.28	40.7	6.19	42.2	5.91	42.8	6.02	44.1	5.87	45.3	5.56		
	12	29.4	4.45	35.1	5.39	40.7	6.31	41.6	5.88	42.3	5.99	43.5	5.83	44.8	5.84		
	14	29.4	4.53	35.1	5.48	40.6	6.41	41.1	5.85	41.7	5.95	43.0	6.11	44.2	6.17		
	16	29.4	4.61	35.1	5.58	40.0	6.38	40.6	5.90	41.2	6.20	42.4	6.44	43.7	6.51		
	18	29.4	4.69	35.1	5.69	39.5	6.61	40.0	6.21	40.6	6.51	41.9	6.77	43.2	6.84		
	20	29.4	4.78	35.1	6.06	38.9	6.94	39.5	6.50	40.1	6.83	41.4	7.09	42.6	7.18		
	21	29.4	4.92	35.1	6.27	38.6	7.10	39.2	6.66	39.8	6.99	41.1	7.26	42.3	7.35		
	23	29.4	5.26	35.1	6.72	38.1	7.43	38.7	6.96	39.3	7.31	40.5	7.60	41.8	7.69		
	25	29.4	5.61	35.1	7.19	37.6	7.75	38.1	7.27	38.7	7.63	40.0	7.94	41.2	8.03		
	27	29.4	5.99	35.1	7.68	37.0	8.07	37.6	7.58	38.2	7.96	39.4	8.27	40.7	8.37		
	29	29.4	6.39	35.1	8.20	36.5	8.40	37.0	7.88	37.6	8.28	38.9	8.60	40.2	8.72		
	31	29.4	6.81	34.9	8.66	35.9	8.73	36.5	8.19	37.1	8.61	38.4	8.95	39.6	9.06		
	33	29.4	7.24	34.3	8.99	35.4	9.06	35.9	8.50	36.6	8.93	37.8	9.29	39.1	9.41		
	35	29.4	7.71	33.8	9.32	34.8	9.40	35.4	8.81	36.0	9.27	37.3	9.63	38.5	9.77		
	37	29.4	8.21	33.3	9.64	34.3	9.73	34.8	9.13	35.5	9.60	36.7	9.98	38.0	10.1		
	39	29.4	8.72	32.7	9.98	33.7	10.1	34.3	9.44	34.9	9.94	36.2	10.3	37.4	10.5		
	41	29.4	9.54	32.2	10.6	33.2	10.7	33.7	10.0	34.4	10.6	35.6	11.0	36.9	11.1		
	43	29.4	10.1	32.0	11.0	32.2	11.0	32.3	10.2	32.3	10.7	32.8	11.0	32.9	11.0		
	46	29.4	11.1	29.9	11.3	30.0	11.3	30.1	10.6	30.6	11.1	31.5	11.5	32.4	11.6		
	48	22.6	8.14	23.2	8.40	23.7	8.65	24.5	8.89	24.6	9.44	24.8	10.0	26.1	10.3		
	50	19.6	7.83	19.7	7.85	19.8	7.87	19.8	7.37	19.9	7.71	20.0	7.96	20.0	8.01		
120%	10	27.1	4.02	32.4	4.84	37.6	5.67	40.2	5.72	42.1	6.18	43.3	6.07	44.5	5.78		
	12	27.1	4.08	32.4	4.93	37.6	5.77	40.2	5.81	41.6	6.15	42.8	6.03	43.9	5.80		
	14	27.1	4.15	32.4	5.02	37.6	5.87	40.2	5.92	41.1	6.12	42.2	6.07	43.4	6.13		
	16	27.1	4.24	32.4	5.11	37.6	5.99	39.9	5.97	40.5	6.16	41.7	6.39	42.8	6.46		
	18	27.1	4.31	32.4	5.21	37.6	6.18	39.4	6.17	40.0	6.47	41.1	6.71	42.3	6.79		
	20	27.1	4.39	32.4	5.41	37.6	6.63	38.8	6.47	39.4	6.79	40.6	7.04	41.7	7.13		
	21	27.1	4.43	32.4	5.60	37.6	6.88	38.6	6.62	39.2	6.95	40.3	7.21	41.5	7.29		
	23	27.1	4.72	32.4	6.00	37.6	7.36	38.0	6.92	38.6	7.26	39.8	7.54	40.9	7.63		
	25	27.1	5.04	32.4	6.41	37.0	7.70	37.5	7.22	38.1	7.58	39.2	7.88	40.4	7.96		
	27	27.1	5.37	32.4	6.85	36.4	8.03	36.9	7.53	37.5	7.90	38.7	8.20	39.8	8.30		
	29	27.1	5.73	32.4	7.30	35.9	8.35	36.4	7.84	37.0	8.22	38.1	8.54	39.3	8.65		
	31	27.1	6.10	32.4	7.79	35.3	8.68	35.8	8.14	36.4	8.55	37.6	8.88	38.7	8.99		
	33	27.1	6.49	32.4	8.30	34.8	9.01	35.3	8.45	35.9	8.87	37.0	9.22	38.2	9.33		
	35	27.1	6.90	32.4	8.84	34.2	9.34	34.8	8.75	35.3	9.21	36.5	9.56	37.7	9.67		
	37	27.1	7.34	32.4	9.42	33.7	9.66	34.2	9.06	34.8	9.53	36.0	9.90	37.1	10.0		
	39	27.1	7.79	32.2	9.92	33.2	9.99	33.7	9.38	34.2	9.86	35.4	10.2	36.6	10.4		
	41	27.1	8.52	31.7	10.5	32.6	10.6	32.7	9.89	33.7	10.5	34.9	10.9	36.0	11.0		
	43	27.1	9.04	31.5	10.9	31.6	10.9	31.7	10.2	31.8	10.6	32.8	10.9	32.8	11.0		
	46	27.1	9.89	29.9	11.3	30.0	11.3	30.1	10.6	30.6	11.1	31.5	11.5	32.4	11.6		
	48	22.6	8.14	23.2	8.40	23.7	8.65	24.5	8.89	24.6	9.44	24.8	10.0	26.0	10.3		
	50	19.6	7.82	19.7	7.85	19.8	7.87	19.8	7.36	19.9	7.70	20.0	7.96	20.0	8.00		
110%	10	25.0	3.67	29.7	4.41	34.6	5.16	36.9	5.19	39.7	5.88	42.5	6.25	43.6	6.00		
	12	25.0	3.73	29.7	4.49	34.6	5.25	36.9	5.29	39.7	5.99	42.0	6.22	43.1	5.96		
	14	25.0	3.79	29.7	4.56	34.6	5.34	36.9	5.38	39.7	6.10	41.4	6.19	42.5	6.08		
	16	25.0	3.86	29.7	4.65	34.6	5.44	36.9	5.48	39.7	6.21	40.9	6.35	42.0	6.41		
	18	25.0	3.93	29.7	4.74	34.6	5.55	36.9	5.62	39.3	6.43	40.4	6.67	41.4	6.74		
	20	25.0	4.00	29.7	4.83	34.6	5.86	36.9	6.04	38.7	6.75	39.8	6.99	40.9	7.07		
	21	25.0	4.04	29.7	4.98	34.6	6.07	36.9	6.25	38.5	6.90	39.5	7.16	40.6	7.23		
	23	25.0	4.23	29.7	5.32	34.6	6.50	36.9	6.70	37.9	7.22	39.0	7.48	40.1	7.56		
	25	25.0	4.51	29.7	5.68	34.6	6.95	36.9	7.17	37.4	7.53	38.4	7.81	39.5	7.90		
	27	25.0	4.79	29.7	6.07	34.6	7.43	36.3	7.48	36.8	7.85	37.9	8.14	39.0	8.24		
	29	25.0	5.10	29.7	6.47	34.6	7.93	35.8	7.78	36.3	8.17	37.4	8.48	38.4	8.57		
	31	25.0	5.44	29.7	6.89	34.6	8.45	35.2	8.08	35.8	8.49	36.8	8.81	37.9	8.90		
	33	25.0	5.78	29.7	7.33	34.4	8.96	34.7	8.39	35.2	8.81	36.3	9.15	37.3	9.24		
	35	25.0	6.14	29.7	7.81	33.7	9.27	34.1	8.70	34.7	9.14	35.7	9.48	36.8	9.59		
	37	25.0	6.52	29.7	8.30	33.1	9.60	33.6	9.00	34.1	9.46	35.2	9.82	36.2	9.93		
	39	25.0	6.92	29.7	8.83	32.6	9.93	33.0	9.31	33.6	9.79	34.6	10.2	35.7	10.3		
	41	25.0	7.55	29.7	9.66	32.0	10.6	32.1	9.84	33.0	10.4	34.1	10.8	35.1	10.9		
	43	25.0	8.01	29.7	10.3	31.1	10.9	31.1	10.1	31.8	10.7	32.8	11.2	32.8	11.3		
	46	25.0	8.75	29.7	11.2	30.0	11.3	30.1	10.6	30.6	11.1	31.5	11.5	32.4	11.6		
	48	22.6	8.14	23.2	8.40	23.7	8.65	24.5	8.89	24.6	9.44	24.8	10.0	26.0	10.3		
	50	19.6	7.81	19.7	7.84	19.8	7.86	19.8	7.35	19.8	7.69	19.9	7.95	20.0	7.99		
100%	10	22.6	3.34	27.0	3.99	31.3	4.64	33.5	4.67	36.1	5.30	41.2	5.90	42.7	6.21		
	12	22.6	3.39	27.0	4.06	31.3	4.72	33.5	4.76	36.1	5.39	41.2	6.41	42.2	6.17		
	14	22.6	3.44	27.0	4.12	31.3	4.81	33.5	4.85	36.1	5.49	40.7	6.38	41.6	6.14		
	16	22.6	3.50	27.0	4.20	31.3	4.90	33.5	4.93	36.1	5.59	40.1	6.35	41.1	6.36		
	18	22.6	3.57	27.0	4.28	31.3	4.99	33.5	5.03	36.1	5.70	39.6	6.62	40.5	6.69		
	20	22.6	3.63	27.0	4.36	31.3	5.14	33.5	5.27	36.1	6.12	39.0	6.94	40.0	7.01		
	21	22.6	3.66	27.0	4.40	31.3	5.31	33.5	5.46	36.1	6.34	38.8	7.11	39.7	7.17		
	23	22.6	3.75	27.0	4.69	31.3	5.68	33.5	5.84	36.1	6.79	38.2	7.43	39.2	7.50		
	25	22.6	4.00	27.0	5.00	31.3	6.07	33.5	6.25	36.1	7.26	37.7	7.75	38.6	7.84		
	27	22.6	4.26	27.0	5.33	31.3	6.48	33.5	6.68	36.1	7.77	37.1	8.08	38.1	8.16		
	29	22.6	4.53	27.0	5.68	31.3	6.91	33.5	7.13	35.6	8.11	36.6	8.41	37.6	8.49		
	31	22.6	4.81	27.0	6.05	31.3	7.37	33.5	7.61	35.1	8.43	36.0	8.74	37.0	8.83		
	33	22.6	5.														

RXQ14ARYFK Cooling capacity for VRV indoor units only (VRT)

Capacity ratio (%)	Outdoor air temp. °CDB	Indoor air temp. (°CWB)															
		14		16		18		19		20		22		24			
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI		
130%	10	35.1	5.22	41.9	6.32	48.5	7.36	50.4	7.10	51.1	7.38	52.6	7.03	54.1	6.60		
	12	35.1	5.31	41.9	6.43	48.5	7.50	49.7	7.05	50.5	7.34	52.0	6.97	53.5	6.94		
	14	35.1	5.40	41.9	6.54	48.4	7.62	49.1	7.02	49.8	7.30	51.3	7.29	52.8	7.34		
	16	35.1	5.51	41.9	6.66	47.8	7.58	48.4	7.08	49.2	7.59	50.7	7.69	52.2	7.73		
	18	35.1	5.60	41.9	6.79	47.1	7.87	47.8	7.44	48.5	7.98	50.0	8.09	51.5	8.14		
	20	35.1	5.71	41.9	7.22	46.5	8.24	47.1	7.81	47.9	8.37	49.4	8.49	50.9	8.53		
	21	35.1	5.86	41.9	7.47	46.1	8.44	46.8	7.99	47.6	8.56	49.1	8.68	50.5	8.73		
	23	35.1	6.26	41.9	8.01	45.5	8.82	46.2	8.35	46.9	8.96	48.4	9.08	49.9	9.14		
	25	35.1	6.69	41.9	8.56	44.8	9.21	45.5	8.72	46.3	9.35	47.8	9.48	49.2	9.54		
	27	35.1	7.14	41.9	9.15	44.2	9.59	44.8	9.09	45.6	9.74	47.1	9.88	48.6	9.95		
	29	35.1	7.60	41.9	9.77	43.5	9.98	44.2	9.45	45.0	10.1	46.4	10.3	47.9	10.4		
	31	35.1	8.10	41.7	10.3	42.9	10.4	43.5	9.82	44.3	10.5	45.8	10.7	47.3	10.8		
	33	35.1	8.62	41.0	10.7	42.2	10.8	42.9	10.2	43.6	10.9	45.1	11.1	46.6	11.2		
	35	35.1	9.17	40.4	11.1	41.6	11.2	42.2	10.6	43.0	11.3	44.5	11.5	46.0	11.6		
	37	35.1	9.76	39.7	11.5	40.9	11.6	41.6	10.9	42.3	11.8	43.8	11.9	45.3	12.0		
	39	35.1	10.4	39.1	11.9	40.3	12.0	40.9	11.3	41.7	12.2	43.2	12.3	44.7	12.4		
41	35.1	11.0	38.4	12.3	38.9	12.4	39.5	11.6	41.0	12.6	42.5	12.8	44.0	12.9			
43	35.1	11.7	35.5	11.9	37.1	12.6	37.1	11.8	38.8	12.8	40.1	13.0	41.3	13.1			
46	33.1	11.8	34.0	12.3	34.8	12.6	35.2	12.1	36.0	13.2	37.1	13.3	38.1	13.4			
48	17.8	8.37	17.9	8.64	17.9	8.86	17.9	8.47	18.1	9.18	18.2	9.47	18.3	9.72			
50	16.6	7.37	16.6	7.42	16.7	7.42	16.7	7.00	17.0	7.48	17.1	7.54	17.3	7.54			
120%	10	32.4	4.80	38.7	5.79	44.7	6.75	48.0	6.86	50.3	7.58	51.7	7.25	53.1	6.87		
	12	32.4	4.89	38.7	5.89	44.7	6.87	48.0	6.98	49.7	7.54	51.1	7.21	52.4	6.90		
	14	32.4	4.97	38.7	6.01	44.7	6.99	48.0	7.11	49.0	7.50	50.4	7.25	51.8	7.28		
	16	32.4	5.05	38.7	6.11	44.7	7.12	47.7	7.16	48.4	7.55	49.8	7.64	51.1	7.68		
	18	32.4	5.15	38.7	6.23	44.7	7.35	47.0	7.40	47.7	7.94	49.1	8.03	50.5	8.07		
	20	32.4	5.24	38.7	6.47	44.7	7.89	46.4	7.76	47.1	8.31	48.5	8.42	49.8	8.47		
	21	32.4	5.29	38.7	6.69	44.7	8.17	46.1	7.94	46.7	8.51	48.1	8.61	49.5	8.67		
	23	32.4	5.64	38.7	7.16	44.7	8.76	45.4	8.30	46.1	8.90	47.5	9.01	48.9	9.07		
	25	32.4	6.01	38.7	7.65	44.1	9.15	44.8	8.66	45.4	9.29	46.8	9.41	48.2	9.47		
	27	32.4	6.41	38.7	8.17	43.5	9.54	44.1	9.03	44.8	9.68	46.2	9.81	47.6	9.87		
	29	32.4	6.84	38.7	8.71	42.8	9.93	43.5	9.40	44.1	10.1	45.5	10.2	46.9	10.3		
	31	32.4	7.27	38.7	9.28	42.2	10.3	42.8	9.76	43.5	10.5	44.9	10.6	46.3	10.7		
	33	32.4	7.73	38.7	9.89	41.5	10.7	42.1	10.1	42.8	10.9	44.2	11.0	45.6	11.1		
	35	32.4	8.22	38.7	10.5	40.9	11.1	41.5	10.5	42.2	11.3	43.6	11.4	45.0	11.5		
	37	32.4	8.73	38.7	11.2	40.2	11.5	40.8	10.9	41.5	11.7	42.9	11.8	44.3	11.9		
	39	32.4	9.28	38.5	11.8	39.6	11.9	40.2	11.3	40.9	12.1	42.3	12.2	43.7	12.3		
41	32.4	9.85	37.8	12.2	38.8	12.3	38.8	11.5	40.2	12.5	41.6	12.7	43.0	12.8			
43	32.4	10.5	35.5	11.9	37.1	12.6	37.1	11.8	38.8	12.8	40.1	13.0	41.3	13.1			
46	32.4	11.4	34.0	12.3	34.8	12.6	35.2	12.1	36.0	13.2	37.1	13.3	38.1	13.4			
48	17.8	8.31	17.8	8.58	17.8	8.81	17.9	8.43	18.1	9.13	18.2	9.42	18.3	9.65			
50	16.5	7.37	16.6	7.41	16.6	7.42	16.7	7.00	16.9	7.48	17.1	7.53	17.2	7.54			
110%	10	29.7	4.40	35.5	5.28	41.0	6.14	44.0	6.24	47.4	7.22	50.8	7.48	52.1	7.13		
	12	29.7	4.47	35.5	5.38	41.0	6.25	44.0	6.35	47.4	7.34	50.1	7.44	51.4	7.08		
	14	29.7	4.55	35.5	5.47	41.0	6.36	44.0	6.47	47.4	7.47	49.5	7.39	50.8	7.23		
	16	29.7	4.63	35.5	5.56	41.0	6.48	44.0	6.59	47.4	7.61	48.8	7.59	50.1	7.61		
	18	29.7	4.70	35.5	5.66	41.0	6.60	44.0	6.76	46.9	7.88	48.2	7.98	49.5	8.01		
	20	29.7	4.79	35.5	5.77	41.0	6.98	44.0	7.25	46.3	8.27	47.5	8.37	48.8	8.40		
	21	29.7	4.83	35.5	5.95	41.0	7.22	44.0	7.51	45.9	8.46	47.2	8.56	48.5	8.60		
	23	29.7	5.05	35.5	6.36	41.0	7.73	44.0	8.04	45.3	8.84	46.6	8.95	47.8	8.99		
	25	29.7	5.39	35.5	6.79	41.0	8.26	44.0	8.60	44.6	9.23	45.9	9.35	47.2	9.39		
	27	29.7	5.74	35.5	7.24	41.0	8.83	43.4	8.98	44.0	9.61	45.3	9.73	46.5	9.78		
	29	29.7	6.10	35.5	7.72	41.0	9.42	42.7	9.34	43.3	10.0	44.6	10.1	45.9	10.2		
	31	29.7	6.49	35.5	8.22	41.0	10.1	42.1	9.70	42.7	10.4	44.0	10.5	45.2	10.6		
	33	29.7	6.89	35.5	8.75	40.8	10.6	41.4	10.1	42.0	10.8	43.3	10.9	44.6	11.0		
	35	29.7	7.32	35.5	9.31	40.2	11.0	40.8	10.4	41.4	11.2	42.7	11.3	43.9	11.4		
	37	29.7	7.77	35.5	9.90	39.5	11.4	40.1	10.8	40.7	11.6	42.0	11.7	43.3	11.8		
	39	29.7	8.25	35.5	10.5	38.9	11.8	39.4	11.2	40.1	12.0	41.4	12.1	42.6	12.2		
41	29.7	8.75	35.5	11.2	38.1	12.2	38.1	11.5	39.4	12.4	40.7	12.6	42.0	12.6			
43	29.7	9.28	35.5	11.9	36.9	12.6	37.1	11.8	38.8	12.8	40.1	13.0	41.3	13.1			
46	29.7	10.1	34.0	12.3	34.8	12.6	35.2	12.1	36.0	13.2	37.1	13.3	38.1	13.4			
48	17.8	8.27	17.8	8.54	17.8	8.76	17.9	8.38	18.1	9.07	18.2	9.36	18.3	9.60			
50	16.5	7.36	16.5	7.41	16.5	7.41	16.7	6.99	16.9	7.47	17.0	7.52	17.1	7.53			
100%	10	27.0	4.00	32.2	4.79	37.3	5.54	40.0	5.63	43.1	6.50	49.2	7.53	51.0	7.38		
	12	27.0	4.06	32.2	4.87	37.3	5.64	40.0	5.73	43.1	6.62	49.2	7.66	50.4	7.34		
	14	27.0	4.13	32.2	4.95	37.3	5.74	40.0	5.82	43.1	6.74	48.6	7.63	49.7	7.30		
	16	27.0	4.20	32.2	5.04	37.3	5.85	40.0	5.94	43.1	6.86	47.9	7.59	49.1	7.56		
	18	27.0	4.28	32.2	5.13	37.3	5.96	40.0	6.04	43.1	6.99	47.3	7.91	48.4	7.94		
	20	27.0	4.35	32.2	5.22	37.3	6.12	40.0	6.34	43.1	7.50	46.6	8.30	47.8	8.33		
	21	27.0	4.39	32.2	5.27	37.3	6.33	40.0	6.56	43.1	7.77	46.3	8.49	47.4	8.52		
	23	27.0	4.49	32.2	5.61	37.3	6.77	40.0	7.03	43.1	8.32	45.6	8.88	46.8	8.92		
	25	27.0	4.79	32.2	5.99	37.3	7.23	40.0	7.51	43.1	8.90	45.0	9.27	46.1	9.31		
	27	27.0	5.09	32.2	6.37	37.3	7.72	40.0	8.02	43.1	9.51	44.3	9.66	45.5	9.70		
	29	27.0	5.41	32.2	6.79	37.3	8.23	40.0	8.56	42.5	9.94	43.7	10.1	44.8	10.1		
	31	27.0	5.76	32.2	7.22	37.3	8.78	40.0	9.12	41.9	10.3	43.0	10.4	44.2	10.5		
	33	27.0	6.11	32.2	7.69	37											

RXQ16ARYFK Cooling capacity for VRV indoor units only (VRT)

Capacity ratio (%)	Outdoor air temp. °CDB	Indoor air temp. (°CWB)															
		14		16		18		19		20		22		24			
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI		
130%	10	39.4	6.05	47.1	7.31	54.5	8.57	56.7	8.26	57.5	8.57	59.2	8.13	60.9	7.69		
	12	39.5	6.15	47.1	7.44	54.5	8.73	55.9	8.23	56.8	8.51	58.5	8.07	60.2	8.08		
	14	39.5	6.25	47.1	7.58	54.5	8.87	55.2	8.19	56.1	8.46	57.7	8.45	59.4	8.55		
	16	39.5	6.36	47.1	7.72	53.7	8.82	54.5	8.26	55.3	8.81	57.0	8.91	58.7	9.01		
	18	39.5	6.48	47.1	7.86	53.0	9.15	53.7	8.68	54.6	9.26	56.3	9.36	58.0	9.47		
	20	39.5	6.60	47.1	8.37	52.3	9.60	53.0	9.09	53.9	9.71	55.5	9.83	57.2	9.94		
	21	39.5	6.78	47.1	8.66	51.9	9.82	52.7	9.31	53.5	9.94	55.2	10.1	56.9	10.2		
	23	39.5	7.25	47.1	9.27	51.2	10.3	51.9	9.73	52.8	10.4	54.5	10.5	56.1	10.6		
	25	39.5	7.74	47.1	9.92	50.4	10.7	51.2	10.2	52.0	10.9	53.7	11.0	55.4	11.1		
	27	39.5	8.26	47.1	10.6	49.7	11.2	50.5	10.6	51.3	11.3	53.0	11.4	54.7	11.6		
	29	39.5	8.80	47.1	11.3	49.0	11.6	49.7	11.0	50.6	11.8	52.3	11.9	53.9	12.1		
	31	39.5	9.38	46.9	11.9	48.3	12.1	49.0	11.5	49.8	12.2	51.5	12.4	53.2	12.5		
120%	10	36.4	5.66	43.5	6.71	50.3	7.86	54.0	7.99	56.6	8.79	58.2	8.40	59.7	7.99		
	12	36.4	5.85	43.5	6.83	50.3	8.00	54.0	8.14	55.9	8.74	57.4	8.34	59.0	8.02		
	14	36.4	5.75	43.5	6.95	50.3	8.15	54.0	8.28	55.2	8.69	56.7	8.39	58.3	8.48		
	16	36.4	5.85	43.5	7.07	50.3	8.29	53.6	8.34	54.4	8.75	56.0	8.84	57.5	8.94		
	18	36.4	5.96	43.5	7.21	50.3	8.56	52.9	8.62	53.7	9.20	55.2	9.30	56.8	9.40		
	20	36.4	6.07	43.5	7.49	50.3	9.19	52.2	9.04	53.0	9.65	54.5	9.75	56.1	9.86		
	21	36.4	6.12	43.5	7.75	50.3	9.52	51.8	9.25	52.6	9.87	54.1	9.98	55.7	10.1		
	23	36.4	6.53	43.5	8.29	50.3	10.2	51.1	9.68	51.9	10.3	53.4	10.4	55.0	10.6		
	25	36.4	6.96	43.5	8.86	49.7	10.7	50.3	10.1	51.1	10.8	52.7	10.9	54.2	11.0		
	27	36.4	7.43	43.5	9.46	48.9	11.1	49.6	10.5	50.4	11.2	52.0	11.4	53.5	11.5		
	29	36.4	7.91	43.5	10.1	48.2	11.6	48.9	11.0	49.7	11.7	51.2	11.8	52.9	12.0		
	31	36.4	8.42	43.5	10.8	47.5	12.0	48.1	11.4	48.9	12.1	50.5	12.3	52.0	12.4		
110%	10	33.4	5.09	39.9	6.12	46.1	7.16	49.5	7.27	53.3	8.37	57.1	8.66	58.6	8.30		
	12	33.4	5.17	39.9	6.22	46.1	7.28	49.5	7.40	53.3	8.52	56.4	8.61	57.8	8.24		
	14	33.4	5.26	39.9	6.33	46.1	7.41	49.5	7.53	53.3	8.67	55.7	8.57	57.1	8.42		
	16	33.4	5.35	39.9	6.44	46.1	7.54	49.5	7.67	53.3	8.83	54.9	8.79	56.4	8.87		
	18	33.4	5.45	39.9	6.56	46.1	7.68	49.5	7.87	52.8	9.14	54.2	9.23	55.6	9.33		
	20	33.4	5.54	39.9	6.68	46.1	8.12	49.5	8.46	52.0	9.58	53.5	9.69	54.9	9.78		
	21	33.4	5.59	39.9	6.89	46.1	8.40	49.5	8.75	51.7	9.82	53.1	9.91	54.5	10.0		
	23	33.4	5.84	39.9	7.36	46.1	9.00	49.5	9.37	51.0	10.3	52.4	10.4	53.8	10.5		
	25	33.4	6.23	39.9	7.87	46.1	9.63	49.5	10.0	50.2	10.7	51.6	10.8	53.1	10.9		
	27	33.4	6.63	39.9	8.39	46.1	10.3	48.8	10.5	49.5	11.2	50.9	11.3	52.3	11.4		
	29	33.4	7.06	39.9	8.94	46.1	11.0	48.0	10.9	48.8	11.6	50.2	11.7	51.6	11.9		
	31	33.4	7.51	39.9	9.52	46.1	11.7	47.3	11.3	48.0	12.1	49.5	12.2	50.9	12.3		
100%	10	30.4	4.63	36.3	5.64	41.9	6.45	45.0	6.56	48.5	7.55	55.4	8.72	57.4	8.59		
	12	30.4	4.71	36.3	5.64	41.9	6.57	45.0	6.68	48.5	7.68	55.4	8.87	56.7	8.55		
	14	30.4	4.78	36.3	5.73	41.9	6.68	45.0	6.79	48.5	7.82	54.6	8.83	55.9	8.50		
	16	30.4	4.86	36.3	5.83	41.9	6.80	45.0	6.92	48.5	7.96	53.9	8.79	55.2	8.80		
	18	30.4	4.95	36.3	5.93	41.9	6.93	45.0	7.04	48.5	8.11	53.2	9.17	54.5	9.25		
	20	30.4	5.03	36.3	6.04	41.9	7.13	45.0	7.39	48.5	8.70	52.4	9.61	53.7	9.71		
	21	30.4	5.08	36.3	6.10	41.9	7.37	45.0	7.65	48.5	9.02	52.1	9.83	53.4	9.93		
	23	30.4	5.20	36.3	6.50	41.9	7.89	45.0	8.19	48.5	9.66	51.3	10.3	52.6	10.4		
	25	30.4	5.54	36.3	6.93	41.9	8.42	45.0	8.75	48.5	10.3	50.6	10.7	51.9	10.8		
	27	30.4	5.89	36.3	7.39	41.9	8.99	45.0	9.35	48.5	11.0	49.9	11.2	51.2	11.3		
	29	30.4	6.22	36.3	7.87	41.9	9.59	45.0	9.98	47.8	11.5	49.1	11.6	50.4	11.8		
	31	30.4	6.66	36.3	8.37	41.9	10.2	45.0	10.6	47.1	12.0	48.4	12.1	49.7	12.2		
90%	10	27.3	4.19	32.6	4.98	37.8	5.78	40.5	5.86	43.6	6.73	49.9	7.78	56.1	8.84		
	12	27.3	4.25	32.6	5.06	37.8	5.88	40.5	5.96	43.6	6.85	49.9	7.92	55.5	8.84		
	14	27.3	4.32	32.6	5.15	37.8	5.98	40.5	6.07	43.6	6.97	49.9	8.06	54.8	8.80		
	16	27.3	4.39	32.6	5.23	37.8	6.08	40.5	6.18	43.6	7.10	49.9	8.20	54.0	8.75		
	18	27.3	4.47	32.6	5.32	37.8	6.19	40.5	6.29	43.6	7.23	49.9	8.45	53.3	9.18		
	20	27.3	4.54	32.6	5.41	37.8	6.30	40.5	6.41	43.6	7.52	49.9	9.07	52.6	9.62		
	21	27.3	4.58	32.6	5.47	37.8	6.41	40.5	6.62	43.6	7.78	49.9	9.39	52.2	9.84		
	23	27.3	4.65	32.6	5.68	37.8	6.85	40.5	7.09	43.6	8.32	49.9	10.1	51.5	10.3		
	25	27.3	4.89	32.6	6.06	37.8	7.31	40.5	7.57	43.6	8.90	49.6	10.7	50.7	10.8		
	27	27.3	5.20	32.6	6.45	37.8	7.79	40.5	8.07	43.6	9.50	48.8	11.1	50.0	11.2		
	29	27.3	5.52	32.6	6.87	37.8	8.30	40.5	8.61	43.6	10.1	48.1	11.6	49.3	11.7		
	31	27.3	5.86	32.6	7.29	37.8	8.84	40.5	9.17	43.6	10.8	47.4	12.0	48.5	12.1		

TC: Total capacity: kW
PI: Power input: kW (Compressor+Outdoor fan motor)

Capacity ratio

130-100%: Combination ratio (Total capacity index of indoor units / Capacity index of outdoor units)

90-50%: Part load ratio (Operation capacity / 100% combination capacity)

Note: 1. This table shows the average value of conditions which may occur.
2. shows rated condition.

RXQ18ANRYFK Cooling capacity for VRV indoor units only (VRT)

Capacity ratio (%)	Outdoor air temp. °CDB	Indoor air temp. (°CWB)															
		14		16		18		19		20		22		24			
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI		
130%	10	47.5	7.14	54.4	8.09	60.9	9.04	62.7	8.52	63.6	8.91	65.3	8.81	67.0	8.54		
	12	47.3	7.31	54.1	8.28	60.6	9.25	61.8	8.58	62.7	8.98	64.4	8.87	66.1	8.93		
	14	47.1	7.48	53.9	8.47	60.2	9.45	61.0	8.65	61.9	9.04	63.6	9.25	65.3	9.38		
	16	46.9	7.66	53.7	8.68	59.4	9.53	60.2	8.80	61.0	9.40	62.7	9.70	64.4	9.83		
	18	46.7	7.86	53.5	8.90	58.5	9.88	59.3	9.21	60.2	9.83	61.9	10.1	63.6	10.3		
	20	46.5	8.07	53.2	9.39	57.7	10.3	58.5	9.62	59.3	10.3	61.1	10.6	62.8	10.8		
	21	46.4	8.26	53.1	9.67	57.3	10.5	58.1	9.83	58.9	10.5	60.8	10.8	62.4	11.0		
	23	46.2	8.73	52.8	10.2	56.5	11.0	57.2	10.3	58.1	11.0	59.8	11.3	61.5	11.5		
	25	46.0	9.22	52.6	10.9	55.6	11.5	56.4	10.7	57.3	11.4	59.0	11.8	60.7	12.0		
	27	45.7	9.75	52.3	11.5	54.8	11.9	55.6	11.1	56.4	11.9	58.1	12.3	59.8	12.5		
	29	45.5	10.3	52.1	12.2	54.0	12.4	54.7	11.6	55.6	12.4	57.3	12.8	59.0	13.0		
	31	45.3	10.9	51.6	12.8	53.1	12.9	53.9	12.0	54.8	12.9	56.5	13.3	58.2	13.5		
	33	45.1	11.5	50.8	13.3	52.3	13.4	53.1	12.5	53.9	13.4	55.6	13.8	57.3	14.0		
	35	44.8	12.1	50.0	13.8	51.5	13.9	52.2	13.0	53.1	13.9	54.8	14.3	56.5	14.5		
	37	44.6	12.8	49.1	14.3	50.6	14.4	51.4	13.5	52.2	14.4	53.9	14.8	55.7	15.0		
	39	44.3	13.5	48.3	14.8	49.8	15.0	50.5	13.9	51.4	14.9	53.1	15.4	54.8	15.6		
	41	44.1	14.5	47.4	15.6	48.9	15.8	49.7	14.7	50.6	15.7	52.3	15.9	53.8	15.7		
	43	43.2	15.3	46.0	16.2	46.4	15.8	48.0	14.5	48.3	15.1	49.1	15.1	49.6	14.9		
	46	40.2	15.2	40.9	15.1	41.1	14.8	44.9	13.7	45.4	14.4	46.4	14.6	47.4	14.6		
	48	31.4	11.4	32.1	11.5	32.8	11.5	35.9	11.4	36.1	12.1	36.3	12.5	37.5	12.7		
	50	28.4	10.4	28.6	10.3	28.8	10.1	28.9	9.32	29.0	9.82	29.3	9.90	29.4	9.84		
120%	10	44.7	6.78	51.2	7.63	57.3	8.50	60.3	8.32	62.6	9.06	64.2	8.99	65.7	8.75		
	12	44.5	6.93	50.9	7.82	57.1	8.70	60.0	8.50	61.7	9.12	63.3	9.05	64.9	8.88		
	14	44.3	7.10	50.7	8.00	56.8	8.90	59.8	8.70	60.9	9.20	62.5	9.20	64.1	9.32		
	16	44.1	7.28	50.5	8.20	56.5	9.12	59.2	8.85	60.1	9.35	61.6	9.63	63.2	9.76		
	18	43.9	7.47	50.3	8.41	56.3	9.43	58.4	9.16	59.2	9.78	60.8	10.1	62.4	10.2		
	20	43.7	7.67	50.1	8.73	56.0	10.0	57.6	9.57	58.4	10.2	60.0	10.5	61.5	10.7		
	21	43.6	7.77	50.0	8.98	55.9	10.3	57.2	9.78	58.0	10.4	59.6	10.8	61.1	10.9		
	23	43.4	8.19	49.7	9.51	55.6	10.9	56.3	10.2	57.1	10.9	58.7	11.2	60.3	11.4		
	25	43.2	8.64	49.5	10.1	54.8	11.4	55.5	10.6	56.3	11.4	57.9	11.7	59.5	11.9		
	27	43.0	9.12	49.3	10.6	53.9	11.9	54.7	11.1	55.5	11.8	57.0	12.2	58.6	12.4		
	29	42.8	9.62	49.0	11.2	53.1	12.4	53.9	11.5	54.6	12.3	56.2	12.7	57.8	12.9		
	31	42.6	10.2	48.8	11.9	52.3	12.8	53.0	12.0	53.8	12.8	55.4	13.2	57.0	13.4		
	33	42.4	10.7	48.5	12.6	51.5	13.3	52.2	12.4	53.0	13.3	54.5	13.7	56.1	13.9		
	35	42.2	11.3	48.3	13.3	50.6	13.8	51.3	12.9	52.1	13.8	53.7	14.2	55.3	14.4		
	37	42.0	11.9	48.0	14.0	49.8	14.4	50.5	13.4	51.3	14.3	52.9	14.7	54.4	14.9		
	39	41.7	12.6	47.5	14.7	48.9	14.9	49.6	13.9	50.4	14.8	52.0	15.3	53.6	15.5		
	41	41.5	13.5	46.7	15.6	48.1	15.7	48.3	14.6	49.6	15.6	51.2	15.9	52.7	15.7		
	43	40.9	14.2	45.4	16.1	45.8	15.8	47.4	14.5	47.7	15.2	49.1	15.1	49.5	14.9		
	46	37.9	14.1	40.8	15.2	41.1	14.9	44.9	13.7	45.4	14.4	46.3	14.6	47.3	14.6		
	48	31.4	11.5	32.1	11.5	32.8	11.5	35.9	11.5	36.0	12.1	36.2	12.5	37.4	12.7		
	50	28.4	10.4	28.6	10.3	28.8	10.1	28.9	9.29	29.0	9.78	29.2	9.86	29.4	9.81		
110%	10	42.0	6.42	47.9	7.19	53.7	7.98	56.5	7.78	59.7	8.74	63.1	9.16	64.5	8.95		
	12	41.8	6.57	47.7	7.36	53.5	8.16	56.3	7.96	59.4	8.95	62.2	9.23	63.7	9.01		
	14	41.6	6.73	47.5	7.53	53.3	8.35	56.1	8.15	59.1	9.16	61.4	9.30	62.8	9.25		
	16	41.4	6.90	47.3	7.72	53.1	8.56	55.8	8.35	58.9	9.38	60.6	9.57	62.0	9.69		
	18	41.2	7.07	47.1	7.92	52.8	8.78	55.6	8.60	58.2	9.72	59.7	10.0	61.2	10.1		
	20	41.0	7.26	46.9	8.14	52.6	9.22	55.3	9.13	57.4	10.2	58.9	10.5	60.3	10.6		
	21	40.9	7.36	46.8	8.34	52.5	9.49	55.2	9.40	57.0	10.4	58.5	10.7	59.9	10.8		
	23	40.8	7.68	46.5	8.81	52.2	10.1	54.9	9.97	56.2	10.8	57.6	11.2	59.1	11.3		
	25	40.6	8.09	46.3	9.31	52.0	10.6	54.7	10.6	55.3	11.3	56.8	11.6	58.2	11.8		
	27	40.4	8.53	46.1	9.84	51.7	11.3	53.8	11.0	54.5	11.8	56.0	12.1	57.4	12.3		
	29	40.2	8.99	45.9	10.4	51.5	11.9	52.9	11.4	53.7	12.2	55.1	12.6	56.6	12.8		
	31	40.0	9.47	45.7	11.0	51.2	12.6	52.1	11.9	52.8	12.7	54.3	13.1	55.7	13.3		
	33	39.8	9.98	45.4	11.6	50.8	13.3	51.3	12.4	52.0	13.2	53.4	13.6	54.9	13.8		
	35	39.6	10.5	45.2	12.2	49.8	13.8	50.4	12.8	51.2	13.7	52.6	14.1	54.0	14.3		
	37	39.4	11.1	44.9	12.9	48.9	14.3	49.6	13.3	50.3	14.2	51.8	14.6	53.2	14.8		
	39	39.1	11.7	44.7	13.6	48.1	14.8	48.7	13.8	49.5	14.7	50.9	15.2	52.4	15.4		
	41	38.9	12.5	44.4	14.7	47.2	15.6	47.5	14.5	48.6	15.5	50.1	15.9	51.5	15.7		
	43	38.6	13.1	43.6	15.5	45.2	15.9	46.2	14.5	46.9	15.4	47.9	15.4	48.0	15.3		
	46	35.7	13.1	40.6	15.3	41.1	15.0	44.8	13.8	45.3	14.5	46.2	14.7	47.3	14.7		
	48	31.4	11.6	32.1	11.6	32.8	11.6	35.8	11.5	35.9	12.2	36.2	12.6	37.4	12.8		
	50	28.4	10.5	28.6	10.3	28.8	10.1	28.9	9.31	29.0	9.80	29.2	9.89	29.4	9.84		
100%	10	38.3	6.06	44.5	6.74	49.9	7.44	52.5	7.24	55.5	8.14	61.3	9.19	63.3	9.14		
	12	38.3	6.20	44.3	6.90	49.7	7.61	52.3	7.41	55.3	8.32	61.0	9.38	62.5	9.20		
	14	38.3	6.35	44.2	7.06	49.5	7.79	52.1	7.59	55.0	8.52	60.2	9.46	61.6	9.28		
	16	38.3	6.51	44.0	7.25	49.3	7.99	51.8	7.77	54.8	8.73	59.4	9.54	60.8	9.61		
	18	38.3	6.69	43.8	7.43	49.0	8.20	51.6	7.97	54.5	8.95	58.6	9.93	59.9	10.1		
	20	38.1	6.87	43.6	7.63	48.8	8.46	51.4	8.32	54.3	9.50	57.8	10.4	59.1	10.5		
	21	38.0	6.96	43.5	7.74	48.7	8.70	51.3	8.57	54.2	9.78	57.4	10.6	58.7	10.7		
	23	37.8	7.18	43.3	8.15	48.5	9.20	51.0	9.08	53.9	10.4	56.5	11.1	57.8	11.2		
	25	37.6	7.56	43.1	8.60	48.3	9.73	50.8	9.61	53.7	11.0	55.7	11.5	57.0	11.7		
	27	37.5	7.97	42.9	9.07	48.0	10.3	50.5	10.2	53.4	11.6	54.9	12.0	56.2	12.2		
	29	37.3	8.38	42.7	9.58	47.8	10.9	50.3	10.8	52.7	12.1	54.0	12.5	55.3	12.6		
	31	37.1	8.82	42.5	10.1	47.6	11.5	50.0	11.4	51.9	12.6	53.2	13.0	54.5	13.2		
	33	36.9	9.28	42.													

RXQ20ANRYFK Cooling capacity for VRV indoor units only (VRT)

Capacity ratio (%)	Outdoor air temp. °CDB	Indoor air temp. (°CWB)															
		14		16		18		19		20		22		24			
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI		
130%	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW		
	°CDB	°CDB	°CDB	°CDB	°CDB	°CDB	°CDB	°CDB	°CDB	°CDB	°CDB	°CDB	°CDB	°CDB	°CDB		
	10	49.1	7.46	58.5	9.13	67.9	10.6	70.4	10.1	71.5	10.4	73.5	10.1	75.6	9.51		
	12	49.1	7.60	58.5	9.30	67.9	10.8	69.5	10.0	70.5	10.4	72.6	9.99	74.7	10.0		
	14	49.1	7.73	58.5	9.46	67.8	11.0	68.6	9.97	69.6	10.3	71.7	10.5	73.8	10.6		
	16	49.1	7.87	58.5	9.64	66.8	10.9	67.7	10.1	68.7	10.7	70.8	11.0	72.9	11.1		
	18	49.1	8.01	58.5	9.82	65.8	11.3	66.8	10.6	67.8	11.3	69.9	11.6	72.0	11.7		
	20	49.1	8.18	58.5	10.5	64.9	11.9	65.9	11.1	66.9	11.8	69.0	12.2	71.1	12.3		
	21	49.1	8.40	58.5	10.8	64.5	12.2	65.4	11.3	66.5	12.1	68.6	12.4	70.6	12.6		
	23	49.1	8.99	58.5	11.6	63.6	12.7	64.5	11.9	65.5	12.7	67.6	13.0	69.7	13.2		
	25	49.1	9.59	58.5	12.4	62.7	13.3	63.6	12.4	64.6	13.2	66.7	13.6	68.8	13.8		
	27	49.1	10.2	58.5	13.3	61.8	13.8	62.7	12.9	63.7	13.8	65.8	14.2	67.9	14.3		
	29	49.1	10.9	58.5	14.2	60.8	14.4	61.8	13.4	62.8	14.3	64.9	14.7	67.0	14.9		
	31	49.1	11.6	58.2	15.0	59.9	15.0	60.9	14.0	61.9	14.9	64.0	15.3	66.1	15.5		
	33	49.1	12.4	57.3	15.5	59.0	15.5	59.9	14.5	61.0	15.5	63.1	15.9	65.2	16.1		
	35	49.1	13.2	56.4	16.1	58.1	16.1	59.0	15.0	60.1	16.0	62.2	16.5	64.3	16.7		
	37	49.1	14.0	55.5	16.6	57.2	16.7	58.1	15.6	59.2	16.6	61.3	17.1	63.4	17.3		
	39	49.1	14.9	54.6	17.2	56.3	17.2	57.2	16.1	58.3	17.2	60.4	17.7	62.5	17.9		
	41	49.1	17.2	53.7	19.3	55.4	19.4	56.3	18.1	57.4	19.3	59.5	19.9	61.5	20.2		
	43	49.1	18.3	53.1	20.0	54.0	19.9	54.5	18.5	55.0	19.7	56.3	20.2	57.2	20.3		
	46	49.1	19.9	50.5	20.7	50.7	20.5	51.5	19.1	52.4	20.4	54.1	21.0	55.8	21.2		
48	38.1	14.8	39.1	15.5	40.0	15.8	41.0	15.6	41.3	16.8	41.9	17.6	43.5	18.2			
50	32.1	13.2	32.3	13.4	32.4	13.3	32.5	12.4	32.6	13.1	32.7	13.4	32.9	13.5			
120%	10	45.2	6.86	54.0	8.36	62.6	9.71	67.1	9.74	70.3	10.7	72.3	10.4	74.2	9.90		
	12	45.2	6.98	54.0	8.52	62.6	9.89	67.1	9.91	69.4	10.7	71.4	10.3	73.3	9.93		
	14	45.2	7.10	54.0	8.66	62.6	10.1	67.1	10.1	68.5	10.6	70.4	10.4	72.4	10.5		
	16	45.2	7.24	54.0	8.82	62.6	10.3	66.6	10.2	67.6	10.7	69.5	10.9	71.5	11.1		
	18	45.2	7.36	54.0	9.00	62.6	10.6	65.7	10.5	66.7	11.2	68.6	11.5	70.6	11.6		
	20	45.2	7.50	54.0	9.33	62.6	11.4	64.8	11.0	65.8	11.8	67.7	12.1	69.6	12.2		
	21	45.2	7.57	54.0	9.67	62.6	11.8	64.4	11.3	65.3	12.0	67.3	12.3	69.2	12.5		
	23	45.2	8.07	54.0	10.4	62.6	12.6	63.4	11.8	64.4	12.6	66.4	12.9	68.3	13.1		
	25	45.2	8.62	54.0	11.1	61.7	13.2	62.5	12.3	63.5	13.1	65.4	13.5	67.4	13.6		
	27	45.2	9.18	54.0	11.8	60.8	13.8	61.6	12.8	62.6	13.7	64.5	14.1	66.5	14.2		
	29	45.2	9.78	54.0	12.6	59.9	14.3	60.7	13.3	61.7	14.2	63.6	14.6	65.6	14.8		
	31	45.2	10.4	54.0	13.4	59.0	14.9	59.8	13.9	60.8	14.8	62.7	15.2	64.6	15.4		
	33	45.2	11.1	54.0	14.3	58.1	15.4	58.9	14.4	59.9	15.4	61.8	15.8	63.7	16.0		
	35	45.2	11.8	54.0	15.3	57.1	16.0	58.0	14.9	59.0	15.9	60.9	16.4	62.8	16.6		
	37	45.2	12.5	54.0	16.3	56.2	16.6	57.1	15.4	58.1	16.5	60.0	17.0	61.9	17.2		
	39	45.2	13.3	53.7	17.1	55.3	17.1	56.2	16.0	57.1	17.1	59.1	17.5	61.0	17.8		
	41	45.2	15.4	52.8	19.2	54.4	19.2	54.8	17.9	56.2	19.2	58.2	19.7	60.1	20.0		
	43	45.2	16.3	52.3	19.9	53.1	19.7	53.5	18.4	54.0	19.6	55.7	20.0	56.5	20.2		
	46	45.2	17.8	50.2	20.6	50.4	20.4	51.1	19.0	51.9	20.4	53.6	20.9	55.2	21.1		
	48	38.0	14.8	38.9	15.4	39.9	15.8	40.9	15.5	41.2	16.8	41.8	17.6	43.3	18.1		
	50	32.1	13.1	32.2	13.3	32.3	13.4	32.4	12.3	32.5	13.1	32.7	13.4	32.8	13.5		
110%	10	41.6	6.27	49.5	7.61	57.5	8.83	61.6	8.85	66.2	10.2	71.0	10.7	72.7	10.3		
	12	41.6	6.37	49.5	7.75	57.5	8.99	61.6	9.01	66.2	10.4	70.1	10.7	71.8	10.2		
	14	41.6	6.48	49.5	7.88	57.5	9.15	61.6	9.18	66.2	10.6	69.2	10.6	70.9	10.4		
	16	41.6	6.60	49.5	8.02	57.5	9.32	61.6	9.33	66.2	10.8	68.3	10.9	70.0	11.0		
	18	41.6	6.71	49.5	8.18	57.5	9.49	61.6	9.58	65.6	11.1	67.3	11.4	69.1	11.5		
	20	41.6	6.83	49.5	8.33	57.5	10.0	61.6	10.3	64.7	11.7	66.4	12.0	68.2	12.1		
	21	41.6	6.90	49.5	8.58	57.5	10.4	61.6	10.7	64.2	11.9	66.0	12.3	67.7	12.4		
	23	41.6	7.22	49.5	9.18	57.5	11.1	61.6	11.4	63.3	12.5	65.1	12.8	66.8	12.9		
	25	41.6	7.69	49.5	9.80	57.5	11.9	61.6	12.2	62.4	13.0	64.2	13.4	65.9	13.5		
	27	41.6	8.20	49.5	10.5	57.5	12.7	60.6	12.7	61.5	13.6	63.2	13.9	65.0	14.1		
	29	41.6	8.73	49.5	11.2	57.5	13.6	59.7	13.3	60.6	14.1	62.3	14.5	64.1	14.7		
	31	41.6	9.29	49.5	11.9	57.5	14.5	58.8	13.8	59.7	14.7	61.4	15.1	63.2	15.2		
	33	41.6	9.87	49.5	12.7	57.3	15.3	57.9	14.3	58.7	15.3	60.5	15.7	62.3	15.8		
	35	41.6	10.5	49.5	13.5	56.2	15.9	56.9	14.8	57.8	15.8	59.6	16.2	61.4	16.4		
	37	41.6	11.1	49.5	14.3	55.3	16.4	56.0	15.3	56.9	16.4	58.7	16.8	60.5	17.0		
	39	41.6	11.8	49.5	15.2	54.4	17.0	55.1	15.9	56.0	16.9	57.8	17.4	59.6	17.6		
	41	41.6	13.6	49.5	17.6	53.4	19.1	53.8	17.7	55.1	19.0	56.9	19.5	58.6	19.8		
	43	41.6	14.4	49.5	18.7	52.2	19.7	52.5	18.2	53.5	19.6	55.2	20.1	55.9	20.4		
	46	41.6	15.7	49.5	20.4	50.0	20.4	50.7	19.0	51.5	20.3	53.1	20.8	54.7	21.1		
	48	37.9	14.7	38.8	15.3	39.8	15.7	40.8	15.5	41.0	16.7	41.7	17.5	43.1	18.1		
	50	32.0	13.1	32.2	13.3	32.3	13.2	32.4	12.3	32.4	13.1	32.6	13.4	32.7	13.4		
100%	10	37.7	5.69	45.0	6.88	52.2	7.96	55.9	7.97	60.2	9.18	68.8	10.8	71.3	10.6		
	12	37.7	5.79	45.0	7.00	52.2	8.10	55.9	8.11	60.2	9.33	68.8	11.0	70.4	10.6		
	14	37.7	5.88	45.0	7.12	52.2	8.24	55.9	8.26	60.2	9.50	67.9	10.9	69.5	10.5		
	16	37.7	5.99	45.0	7.25	52.2	8.40	55.9	8.41	60.2	9.68	67.0	10.9	68.6	10.9		
	18	37.7	6.08	45.0	7.38	52.2	8.55	55.9	8.57	60.2	9.87	66.1	11.3	67.7	11.4		
	20	37.7	6.19	45.0	7.52	52.2	8.79	55.9	8.98	60.2	10.6	65.1	11.9	66.8	12.0		
	21	37.7	6.25	45.0	7.60	52.2	9.10	55.9	9.30	60.2	11.0	64.7	12.2	66.3	12.3		
	23	37.7	6.41	45.0	8.08	52.2	9.73	55.9	9.95	60.2	11.8	63.8	12.7	65.4	12.8		
	25	37.7	6.83	45.0	8.63	52.2	10.4	55.9	10.7								

RXQ22ANRYFK Cooling capacity for VRV indoor units only (VRT)

Capacity ratio (%)	Outdoor air temp.	Indoor air temp. (°CWB)															
		14		16		18		19		20		22		24			
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI		
130%	°CDB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	
	10	54.0	8.08	64.4	9.79	74.7	11.5	77.5	10.9	78.6	11.3	80.9	10.9	83.2	10.3		
	12	54.0	8.23	64.4	9.97	74.7	11.7	76.5	10.8	77.6	11.2	79.9	10.8	82.2	10.8		
	14	54.0	8.36	64.4	10.1	74.5	11.9	75.5	10.8	76.6	11.2	78.9	11.3	81.2	11.4		
	16	54.0	8.51	64.4	10.3	73.4	11.8	74.5	10.9	75.6	11.6	77.9	11.9	80.2	12.1		
	18	54.0	8.67	64.4	10.5	72.4	12.3	73.5	11.4	74.6	12.2	76.9	12.5	79.2	12.7		
	20	54.0	8.84	64.4	11.2	71.4	12.9	72.5	12.0	73.6	12.8	75.9	13.2	78.2	13.3		
	21	54.0	9.08	64.4	11.6	70.9	13.2	72.0	12.2	73.1	13.1	75.4	13.5	77.7	13.6		
	23	54.0	9.72	64.4	12.4	69.9	13.8	71.0	12.8	72.1	13.7	74.4	14.1	76.7	14.2		
	25	54.0	10.4	64.4	13.3	68.9	14.4	70.0	13.4	71.1	14.3	73.4	14.7	75.7	14.9		
	27	54.0	11.1	64.4	14.2	67.9	15.0	69.0	13.9	70.1	14.9	72.4	15.3	74.7	15.5		
	29	54.0	11.8	64.4	15.2	66.9	15.6	68.0	14.5	69.1	15.5	71.4	15.9	73.7	16.2		
	31	54.0	12.6	64.1	16.0	65.9	16.2	67.0	15.1	68.1	16.2	70.4	16.6	72.7	16.8		
	33	54.0	13.4	63.0	16.7	64.9	16.8	65.9	15.6	67.1	16.8	69.4	17.2	71.7	17.4		
	35	54.0	14.3	62.1	17.3	63.9	17.4	65.0	16.2	66.1	17.4	68.4	17.9	70.7	18.1		
	37	54.0	15.2	61.0	17.9	62.9	18.0	63.9	16.8	65.1	18.0	67.4	18.5	69.7	18.8		
	39	54.0	16.1	60.1	18.5	61.9	18.7	63.0	17.4	64.1	18.6	66.4	19.1	68.7	19.4		
	41	54.0	19.1	59.0	21.2	60.9	21.5	61.9	20.0	63.1	21.5	65.4	22.0	67.7	22.3		
	43	54.0	20.2	58.7	22.0	59.1	22.0	59.2	20.3	59.6	21.7	60.4	22.0	61.2	22.1		
	46	54.0	22.1	55.4	22.6	55.7	22.6	56.3	21.0	57.2	22.5	58.4	23.0	60.2	23.3		
	48	43.4	17.3	44.8	18.1	45.9	18.6	46.9	18.2	47.3	19.8	48.0	20.7	49.8	21.4		
50	36.9	15.3	37.0	15.4	37.2	15.5	37.3	14.3	37.4	15.3	37.5	15.6	37.7	15.7			
120%	10	49.8	7.43	59.5	8.97	69.0	10.5	73.8	10.5	77.4	11.6	79.5	11.2	81.6	10.7		
	12	49.8	7.54	59.5	9.14	69.0	10.7	73.8	10.7	76.4	11.5	78.5	11.2	80.6	10.7		
	14	49.8	7.68	59.5	9.29	69.0	10.9	73.8	10.9	75.4	11.5	77.5	11.2	79.6	11.4		
	16	49.8	7.83	59.5	9.47	69.0	11.1	73.3	11.0	74.4	11.6	76.5	11.8	78.6	12.0		
	18	49.8	7.97	59.5	9.65	69.0	11.5	72.3	11.3	73.4	12.1	75.5	12.4	77.6	12.6		
	20	49.8	8.11	59.5	10.0	69.0	12.3	71.3	11.9	72.4	12.7	74.5	13.1	76.6	13.2		
	21	49.8	8.19	59.5	10.4	69.0	12.8	70.8	12.2	71.9	13.0	74.0	13.4	76.1	13.5		
	23	49.8	8.73	59.5	11.1	69.0	13.7	69.8	12.7	70.9	13.6	73.0	14.0	75.1	14.1		
	25	49.8	9.31	59.5	11.9	67.9	14.3	68.8	13.3	69.9	14.2	72.0	14.6	74.1	14.8		
	27	49.8	9.94	59.5	12.7	66.9	14.9	67.8	13.8	68.9	14.8	71.0	15.2	73.1	15.4		
	29	49.8	10.6	59.5	13.5	65.9	15.5	66.8	14.4	67.9	15.4	70.0	15.8	72.1	16.0		
	31	49.8	11.3	59.5	14.4	64.9	16.1	65.8	15.0	66.9	16.0	69.0	16.5	71.1	16.7		
	33	49.8	12.0	59.5	15.4	63.9	16.7	64.8	15.5	65.9	16.7	68.0	17.1	70.1	17.3		
	35	49.8	12.8	59.5	16.4	62.9	17.3	63.8	16.1	64.9	17.3	67.0	17.7	69.1	17.9		
	37	49.8	13.6	59.5	17.4	61.9	17.9	62.8	16.7	63.9	17.9	66.0	18.3	68.1	18.6		
	39	49.8	14.4	59.1	18.4	60.9	18.5	61.8	17.2	62.9	18.5	65.0	19.0	67.1	19.2		
	41	49.8	17.0	58.1	21.1	59.9	21.3	60.0	19.7	61.9	21.3	64.0	21.8	66.1	22.1		
	43	49.8	18.0	57.8	21.8	58.1	21.8	58.4	20.2	59.0	21.6	60.3	21.9	61.0	22.0		
	46	49.8	19.7	55.4	22.6	55.7	22.6	56.2	21.0	57.1	22.5	58.4	23.0	60.2	23.3		
	48	43.4	17.3	44.8	18.1	45.9	18.6	46.9	18.2	47.3	19.8	48.0	20.7	49.7	21.4		
	50	36.9	15.3	37.0	15.4	37.2	15.5	37.3	14.3	37.3	15.3	37.5	15.6	37.7	15.7		
110%	10	45.7	6.79	54.5	8.17	63.4	9.56	67.7	9.55	72.9	11.0	78.1	11.6	80.0	11.1		
	12	45.7	6.90	54.5	8.31	63.4	9.72	67.7	9.72	72.9	11.2	77.1	11.5	79.0	11.0		
	14	45.7	7.02	54.5	8.45	63.4	9.90	67.7	9.89	72.9	11.4	76.1	11.5	78.0	11.3		
	16	45.7	7.14	54.5	8.60	63.4	10.1	67.7	10.1	72.9	11.7	75.1	11.8	77.0	11.9		
	18	45.7	7.26	54.5	8.77	63.4	10.3	67.7	10.3	72.1	12.1	74.1	12.4	76.0	12.5		
	20	45.7	7.39	54.5	8.94	63.4	10.9	67.7	11.1	71.1	12.7	73.1	13.0	75.0	13.1		
	21	45.7	7.46	54.5	9.20	63.4	11.3	67.7	11.5	70.6	12.9	72.6	13.3	74.5	13.4		
	23	45.7	7.80	54.5	9.84	63.4	12.0	67.7	12.3	69.6	13.5	71.6	13.9	73.5	14.0		
	25	45.7	8.33	54.5	10.5	63.4	12.9	67.7	13.2	68.6	14.1	70.6	14.5	72.5	14.6		
	27	45.7	8.87	54.5	11.2	63.4	13.8	66.6	13.7	67.6	14.7	69.6	15.1	71.5	15.3		
	29	45.7	9.43	54.5	12.0	63.4	14.7	65.7	14.3	66.6	15.3	68.6	15.7	70.5	15.9		
	31	45.7	10.0	54.5	12.8	63.4	15.7	64.6	14.9	65.6	15.9	67.6	16.3	69.5	16.5		
	33	45.7	10.7	54.5	13.6	63.0	16.6	63.7	15.4	64.6	16.5	66.6	16.9	68.5	17.1		
	35	45.7	11.3	54.5	14.5	61.8	17.2	62.6	16.0	63.6	17.1	65.6	17.6	67.5	17.8		
	37	45.7	12.1	54.5	15.4	60.8	17.8	61.7	16.6	62.6	17.7	64.6	18.2	66.5	18.4		
	39	45.7	12.8	54.5	16.3	59.8	18.4	60.6	17.1	61.6	18.3	63.6	18.8	65.5	19.0		
	41	45.7	15.1	54.5	19.3	58.6	21.2	59.0	19.6	60.6	21.1	62.6	21.7	64.5	21.9		
	43	45.7	16.0	54.5	20.5	57.4	21.8	57.8	20.1	58.9	21.8	60.3	22.3	61.0	22.6		
	46	45.7	17.4	55.2	22.6	55.7	22.6	56.2	21.0	57.1	22.5	58.4	23.0	60.2	23.3		
	48	43.4	17.3	44.8	18.1	45.9	18.6	46.9	18.2	47.2	19.8	48.0	20.7	49.7	21.4		
	50	36.9	15.3	37.0	15.4	37.1	15.4	37.2	14.3	37.3	15.3	37.5	15.6	37.6	15.7		
100%	10	41.5	6.16	49.6	7.38	57.5	8.61	61.5	8.59	66.2	9.94	75.7	11.7	78.4	11.5		
	12	41.5	6.26	49.6	7.51	57.5	8.76	61.5	8.75	66.2	10.1	75.7	11.9	77.4	11.4		
	14	41.5	6.36	49.6	7.63	57.5	8.92	61.5	8.91	66.2	10.3	74.7	11.8	76.4	11.4		
	16	41.5	6.47	49.6	7.78	57.5	9.08	61.5	9.08	66.2	10.5	73.7	11.8	75.4	11.8		
	18	41.5	6.59	49.6	7.92	57.5	9.25	61.5	9.25	66.2	10.7	72.7	12.3	74.4	12.4		
	20	41.5	6.70	49.6	8.07	57.5	9.51	61.5	9.69	66.2	11.5	71.7	12.9	73.4	13.0		
	21	41.5	6.76	49.6	8.15	57.5	9.84	61.5	10.0	66.2	11.9	71.2	13.2	72.9	13.3		
	23	41.5	6.93	49.6	8.68	57.5	10.5	61.5	10.7	66.2	12.7	70.2	13.8	71.9	13.9		
	25	41.5	7.39	49.6	9.25	57.5	11.3	61.5	11.5	66.2	13.6	69.2	14.4	70.9	14.5		
	27	41.5	7.87	49.6	9.86	57.5	12.0										

RXQ24ANRYFK Cooling capacity for VRV indoor units only (VRT)

Capacity ratio (%)	Outdoor air temp. °CDB	Indoor air temp. (°CWB)												Capacity ratio (%)	Outdoor air temp. °CDB	Indoor air temp. (°CWB)															
		14		16		18		19		20		22				24		14		16		18		19		20		22		24	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI		
130%	10	58.8	8.74	70.2	10.6	81.4	12.4	84.4	11.8	85.6	12.0	88.1	11.7	90.7	11.1	12	36.1	5.39	43.5	6.41	50.4	7.39	53.6	7.36	57.7	8.30	66.0	9.86	74.2	11.2	
	12	58.7	8.91	70.2	10.8	81.4	12.6	83.3	11.8	84.5	12.0	87.1	11.7	89.6	11.7	14	36.1	5.48	43.5	6.51	50.4	7.52	53.6	7.47	57.7	8.46	66.0	10.0	74.2	11.4	
	14	58.7	9.05	70.2	11.0	81.1	12.8	82.2	11.7	83.5	11.9	86.0	12.2	88.5	12.3	16	36.1	5.56	43.5	6.61	50.4	7.64	53.6	7.61	57.7	8.60	66.0	10.2	74.2	11.6	
	16	58.7	9.22	70.2	11.2	80.0	12.8	81.1	11.8	82.4	12.4	84.9	12.9	87.4	13.0	18	36.1	5.64	43.5	6.74	50.4	7.78	53.6	7.74	57.7	8.76	66.0	10.4	74.2	11.9	
	18	58.7	9.38	70.2	11.4	78.9	13.2	80.0	12.4	81.3	13.0	83.8	13.5	86.3	13.7	20	36.1	5.73	43.5	6.84	50.4	7.93	53.6	7.89	57.7	8.92	66.0	10.6	74.2	12.2	
	20	58.7	9.57	70.2	12.1	77.8	13.9	78.9	13.0	80.2	13.7	82.7	14.2	85.2	14.4	21	36.1	5.83	43.5	6.96	50.4	8.07	53.6	8.03	57.7	9.09	66.0	11.1	74.2	13.1	
	21	58.7	9.84	70.2	12.5	77.3	14.2	78.4	13.3	79.6	14.0	82.2	14.5	84.7	14.7	23	36.1	5.97	43.5	7.03	50.4	8.13	53.6	8.10	57.7	9.31	66.0	11.5	74.2	13.6	
	23	58.7	10.5	70.2	13.4	76.2	14.9	77.3	13.9	78.6	14.6	81.1	15.2	83.6	15.4	25	36.1	6.16	43.5	7.15	50.4	8.54	53.6	8.62	57.7	9.95	66.0	12.3	74.2	14.5	
	25	58.7	11.2	70.2	14.4	75.1	15.5	76.2	14.5	77.5	15.3	80.0	15.9	82.5	16.1	27	36.1	6.51	43.5	7.62	50.4	9.10	53.6	9.20	57.7	10.6	66.0	13.1	73.8	15.4	
	27	58.7	12.0	70.2	15.4	74.0	16.1	75.1	15.2	76.4	15.9	78.9	16.5	81.4	16.7	29	36.1	6.94	43.5	8.12	50.4	9.70	53.6	9.81	57.7	11.3	66.0	14.0	72.7	16.0	
	29	58.7	12.8	70.2	16.4	72.9	16.8	74.0	15.8	75.3	16.6	77.8	17.2	80.3	17.4	31	36.1	7.36	43.5	8.61	50.4	10.3	53.6	10.5	57.7	12.1	66.0	14.9	71.6	16.7	
	31	58.7	13.6	69.8	17.3	71.8	17.5	72.9	16.4	74.2	17.2	76.7	17.9	79.2	18.1	33	36.1	7.69	43.5	9.15	50.4	11.0	53.6	11.1	57.7	12.9	66.0	16.0	70.5	17.3	
	33	58.7	14.5	68.7	18.0	70.7	18.1	71.8	17.0	73.1	17.9	75.6	18.6	78.1	18.8	35	36.1	7.79	43.5	9.72	50.4	11.7	53.6	11.8	57.7	13.7	66.0	17.0	69.4	18.0	
	35	58.7	15.4	67.6	18.6	69.7	18.8	70.8	17.6	72.0	18.5	74.5	19.3	77.0	19.5	37	36.1	8.27	43.5	10.3	50.4	12.4	53.6	12.6	57.7	14.6	66.0	18.1	68.4	18.7	
	37	58.7	16.4	66.5	19.3	68.6	19.5	69.7	18.3	70.9	19.2	73.4	20.0	75.9	20.2	39	36.1	8.74	43.5	10.9	50.4	13.2	53.6	13.4	57.7	15.5	65.7	19.1	67.3	19.3	
	39	58.7	17.4	65.4	20.0	67.5	20.1	68.6	18.9	69.8	19.9	72.3	20.7	74.9	21.0	41	36.1	9.24	43.5	11.6	50.4	14.0	53.6	14.2	57.7	16.5	64.6	19.8	66.2	20.0	
	41	58.7	19.1	64.3	21.2	66.4	21.4	67.5	20.1	68.7	21.1	71.3	22.0	73.8	22.3	43	36.1	10.1	43.5	12.6	50.4	15.3	53.6	15.5	57.7	18.0	63.5	21.0	65.1	21.2	
	43	58.7	20.3	64.0	22.0	64.3	22.0	64.5	20.5	64.7	21.4	65.6	22.0	65.8	22.1	46	36.1	10.6	43.5	13.4	50.4	16.2	53.6	16.5	57.7	19.1	62.4	21.7	64.0	21.9	
	46	58.7	22.2	59.8	22.6	60.1	22.6	60.2	21.1	61.1	22.2	62.9	23.0	64.7	23.3	48	36.1	11.6	43.5	14.6	50.4	17.5	53.6	18.0	57.7	21.0	61.6	22.8	63.2	23.0	
48	45.2	16.3	46.3	16.8	47.4	17.3	49.1	17.8	49.3	18.9	49.7	20.0	52.1	20.6	50	36.1	12.2	43.5	15.5	47.4	17.3	48.0	15.4	48.6	18.9	49.6	20.0	51.8	20.6		
50	39.2	15.7	39.4	15.7	39.6	15.7	39.7	14.7	39.7	15.4	39.9	15.9	40.1	16.0	10	31.6	4.79	38.1	5.65	44.1	6.47	46.9	6.42	50.5	7.22	57.7	8.52	64.9	9.70		
120%	12	54.2	8.16	64.8	9.87	75.1	11.5	80.4	11.6	83.2	12.3	85.5	12.1	87.8	11.6	14	31.6	4.86	38.1	5.73	44.1	6.57	46.9	6.51	50.5	7.34	57.7	8.69	64.9	9.86	
	14	54.2	8.31	64.8	10.0	75.1	11.7	80.4	11.8	82.1	12.2	84.4	12.1	86.7	12.3	16	31.6	4.94	38.1	5.81	44.1	6.68	46.9	6.63	50.5	7.48	57.7	8.83	64.9	10.0	
	16	54.2	8.47	64.8	10.2	75.1	12.0	79.9	11.9	81.0	12.3	83.3	12.8	85.6	12.9	18	31.6	5.00	38.1	5.91	44.1	6.80	46.9	6.74	50.5	7.60	57.7	8.99	64.9	10.2	
	18	54.2	8.62	64.8	10.4	75.1	12.4	78.8	12.3	79.9	12.9	82.2	13.4	84.6	13.6	20	31.6	5.08	38.1	6.02	44.1	6.90	46.9	6.86	50.5	7.74	57.7	9.16	64.9	10.4	
	20	54.2	8.78	64.8	10.8	75.1	13.3	77.7	12.9	78.8	13.6	81.2	14.1	83.5	14.3	21	31.6	5.17	38.1	6.10	44.1	7.02	46.9	6.97	50.5	7.88	57.7	9.32	64.9	10.8	
	21	54.2	8.87	64.8	11.2	75.1	13.8	77.1	13.2	78.3	13.9	80.6	14.4	82.9	14.6	23	31.6	5.21	38.1	6.16	44.1	7.09	46.9	7.05	50.5	7.96	57.7	9.55	64.9	11.2	
	23	54.2	9.45	64.8	12.0	75.1	14.7	76.0	13.8	77.2	14.5	79.5	15.1	81.8	15.3	25	31.6	5.29	38.1	6.26	44.1	7.23	46.9	7.28	50.5	8.34	57.7	10.2	64.9	12.0	
	25	54.2	10.1	64.8	12.8	73.9	15.4	75.0	14.4	76.1	15.2	78.4	15.8	80.7	15.9	27	31.6	5.37	38.1	6.51	44.1	7.70	46.9	7.76	50.5	8.90	57.7	10.9	64.9	12.8	
	27	54.2	10.7	64.8	13.7	72.8	16.1	73.9	15.1	75.0	15.8	77.3	16.4	79.7	16.6	29	31.6	5.66	38.1	6.92	44.1	8.20	46.9	8.26	50.5	9.49	57.7	11.6	64.9	13.7	
	29	54.2	11.5	64.8	14.6	71.8	16.7	72.8	15.7	73.9	16.4	76.3	17.1	78.6	17.3	31	31.6	5.99	38.1	7.36	44.1	8.73	46.9	8.79	50.5	10.7	57.7	12.4	64.9	14.6	
	31	54.2	12.2	64.8	15.6	70.7	17.4	71.7	16.3	72.8	17.1	75.2	17.8	77.5	18.0	33	31.6	6.35	38.1	7.79	44.1	9.26	46.9	9.33	50.5	10.7	57.7	13.2	64.9	15.6	
	33	54.2	13.0	64.8	16.6	69.6	18.0	70.6	16.9	71.8	17.7	74.1	18.4	76.4	18.7	35	31.6	6.72	38.1	8.26	44.1	9.84	46.9	9.92	50.5	11.4	57.7	14.1	64.9	16.6	
	35	54.2	13.8	64.8	17.7	68.5	18.7	69.5	17.5	70.7	18.4	73.0	19.1	75.3	19.3	37	31.6	7.11	38.1	8.76	44.1	10.4	46.9	10.5	50.5	12.1	57.7	14.9	64.9	17.7	
	37	54.2	14.7	64.8	18.8	67.4	19.3	68.4	18.1	69.6	19.1	71.9	19.8	74.2	20.0	39	31.6	7.50	38.1	9.27	44.1	11.1	46.9	11.2	50.5	12.9	57.7	15.9	64.9	18.8	
	39	54.2	15.6	64.4	19.8	66.3	20.0	67.3	18.8	68.5	19.7	70.8	20.5	73.1	20.7	41	31.6	7.94	38.1	9.83	44.1	11.7	46.9	11.9	50.5	13.7	57.7	16.9	64.4	19.8	
	41	54.2	17.0	63.3	21.1	65.2	21.3	65.3	19.8	67.4	21.0	69.7	21.8	72.0	22.1	43	31.6	8.62	38.1	10.7	44.1	12.8	46.9	12.9	50.5	14.9	57.7	18.5	63.3	21.0	
	43	54.2	18.1	62.9	21.8	63.2	21.8	63.4	20.4	63.6	21.3	65.6	21.9	65.6	21.9	46	31.6	9.09	38.1	11.3	44.1	13.6	46.9	13.7	50.5						

RXQ26ANRYFK Cooling capacity for VRV indoor units only (VRT)

Capacity ratio (%)	Outdoor air temp.	Indoor air temp. (°CWB)															
		14		16		18		19		20		22		24			
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI		
130%	°CDB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	
	10	64.0	9.75	76.5	11.8	88.6	13.9	91.9	13.2	93.3	13.8	96.0	13.1	98.8	12.4		
	12	64.1	9.93	76.5	12.0	88.6	14.1	90.8	13.2	92.1	13.8	94.9	13.0	97.6	13.1		
	14	64.1	10.1	76.5	12.2	88.5	14.3	89.6	13.1	90.9	13.7	93.7	13.7	96.4	13.8		
	16	64.1	10.3	76.5	12.5	87.2	14.3	88.4	13.2	89.7	14.2	92.5	14.4	95.2	14.6		
	18	64.1	10.5	76.5	12.7	86.0	14.8	87.2	13.9	88.6	15.0	91.3	15.1	94.0	15.3		
	20	64.1	10.7	76.5	13.5	84.8	15.5	86.0	14.6	87.4	15.7	90.1	15.9	92.8	16.1		
	21	64.1	10.9	76.5	14.0	84.2	15.9	85.4	14.9	86.8	16.1	89.5	16.3	92.2	16.4		
	23	64.1	11.7	76.5	15.0	83.0	16.6	84.2	15.6	85.6	16.8	88.3	17.0	91.1	17.2		
	25	64.1	12.5	76.5	16.0	81.8	17.3	83.0	16.3	84.4	17.5	87.1	17.7	89.9	18.0		
	27	64.1	13.3	76.5	17.1	80.6	18.1	81.8	16.9	83.2	18.3	86.0	18.5	88.7	18.7		
	29	64.1	14.2	76.5	18.3	79.5	18.8	80.7	17.6	82.0	19.0	84.8	19.3	87.5	19.5		
	31	64.1	15.2	76.0	19.3	78.3	19.5	79.5	18.3	80.8	19.8	83.6	20.0	86.3	20.3		
	33	64.1	16.1	74.8	20.1	77.1	20.3	78.3	19.0	79.7	20.5	82.4	20.8	85.1	21.1		
	35	64.1	17.2	73.7	20.8	75.9	21.0	77.1	19.7	78.5	21.3	81.2	21.6	83.9	21.8		
	37	64.1	18.2	72.5	21.5	74.7	21.8	75.9	20.4	77.3	22.0	80.0	22.3	82.7	22.6		
	39	64.1	19.4	71.3	22.3	73.5	22.5	74.7	21.1	76.1	22.8	78.8	23.1	81.6	23.4		
	41	64.1	22.3	70.1	24.9	71.4	25.1	72.6	23.5	74.9	25.5	77.6	25.8	80.4	26.2		
	43	64.1	23.6	66.6	24.8	68.5	25.6	68.7	23.8	70.9	25.8	72.6	26.0	74.7	26.2		
	46	60.9	24.2	62.7	25.0	63.8	25.5	64.8	24.0	67.0	26.6	68.4	26.9	70.4	27.2		
48	41.6	18.8	43.1	19.7	43.8	20.3	44.8	19.2	45.1	21.0	45.6	21.6	46.1	22.3			
50	35.6	15.9	35.7	16.0	35.9	16.1	36.3	15.0	36.5	16.2	36.6	16.3	36.7	16.4			
120%	10	59.1	8.97	70.6	10.8	81.8	12.7	87.6	12.8	91.8	14.2	94.4	13.6	96.9	12.9		
	12	59.1	9.11	70.6	11.0	81.8	12.9	87.6	13.0	90.7	14.1	93.2	13.5	95.7	13.0		
	14	59.1	9.28	70.6	11.2	81.8	13.2	87.6	13.3	89.5	14.1	92.0	13.6	94.5	13.7		
	16	59.1	9.44	70.6	11.4	81.8	13.4	87.0	13.3	88.3	14.1	90.8	14.3	93.3	14.4		
	18	59.1	9.61	70.6	11.7	81.8	13.8	85.8	13.8	87.1	14.9	89.6	15.0	92.1	15.2		
	20	59.1	9.78	70.6	12.1	81.8	14.9	84.6	14.5	85.9	15.6	88.4	15.8	90.9	15.9		
	21	59.1	9.88	70.6	12.5	81.8	15.4	84.0	14.8	85.3	16.0	87.8	16.1	90.3	16.3		
	23	59.1	10.5	70.6	13.4	81.8	16.5	82.9	15.5	84.1	16.7	86.6	16.9	89.2	17.1		
	25	59.1	11.2	70.6	14.3	80.6	17.2	81.7	16.2	82.9	17.4	85.5	17.6	88.0	17.8		
	27	59.1	12.0	70.6	15.3	79.4	18.0	80.5	16.8	81.7	18.2	84.3	18.4	86.8	18.6		
	29	59.1	12.8	70.6	16.3	78.2	18.7	79.3	17.5	80.6	18.9	83.1	19.1	85.6	19.3		
	31	59.1	13.6	70.6	17.4	77.0	19.4	78.1	18.2	79.4	19.6	81.9	19.9	84.4	20.1		
	33	59.1	14.5	70.6	18.5	75.8	20.1	76.9	18.9	78.2	20.4	80.7	20.6	83.2	20.9		
	35	59.1	15.4	70.6	19.7	74.6	20.9	75.7	19.6	77.0	21.1	79.5	21.4	82.0	21.7		
	37	59.1	16.3	70.6	21.0	73.4	21.6	74.5	20.3	75.8	21.9	78.3	22.1	80.9	22.4		
	39	59.1	17.3	70.2	22.1	72.2	22.4	73.4	21.0	74.6	22.6	77.1	22.9	79.7	23.2		
	41	59.1	19.9	69.0	24.7	70.9	25.0	71.0	23.2	73.4	25.3	76.0	25.6	78.5	26.0		
	43	59.1	21.1	66.2	24.7	68.0	25.6	68.4	23.8	70.8	25.8	72.6	26.0	74.7	26.2		
	46	59.0	23.0	62.7	25.0	63.8	25.6	64.7	24.0	66.9	26.6	68.4	26.9	70.4	27.2		
	48	41.5	18.8	43.0	19.6	43.8	20.3	44.7	19.2	45.0	20.9	45.6	21.6	46.1	22.3		
50	35.5	15.9	35.7	16.0	35.9	16.1	36.2	15.0	36.4	16.2	36.6	16.3	36.7	16.4			
110%	10	54.2	8.20	64.7	9.88	75.0	11.6	80.3	11.6	86.5	13.5	92.7	14.0	95.0	13.4		
	12	54.2	8.33	64.7	10.0	75.0	11.7	80.3	11.8	86.5	13.8	91.5	13.9	93.8	13.3		
	14	54.2	8.49	64.7	10.2	75.0	12.0	80.3	12.0	86.5	14.0	90.3	13.8	92.6	13.6		
	16	54.2	8.63	64.7	10.4	75.0	12.2	80.3	12.3	86.5	14.3	89.1	14.2	91.4	14.3		
	18	54.2	8.78	64.7	10.6	75.0	12.4	80.3	12.6	86.5	14.8	87.9	14.9	90.2	15.1		
	20	54.2	8.93	64.7	10.8	75.0	13.1	80.3	13.5	84.4	15.5	86.7	15.6	89.1	15.8		
	21	54.2	9.02	64.7	11.1	75.0	13.6	80.3	14.0	83.8	15.9	86.2	16.0	88.5	16.2		
	23	54.2	9.42	64.7	11.9	75.0	14.5	80.3	15.0	82.7	16.6	85.0	16.7	87.3	16.9		
	25	54.2	10.1	64.7	12.7	75.0	15.6	80.3	16.0	81.5	17.3	83.8	17.5	86.1	17.7		
	27	54.2	10.7	64.7	13.5	75.0	16.6	79.1	16.7	80.3	18.0	82.6	18.2	84.9	18.4		
	29	54.2	11.4	64.7	14.4	75.0	17.7	77.9	17.4	79.1	18.8	81.4	19.0	83.7	19.2		
	31	54.2	12.1	64.7	15.4	75.0	18.9	76.7	18.1	77.9	19.5	80.2	19.7	82.5	19.9		
	33	54.2	12.9	64.7	16.4	74.5	20.0	75.6	18.8	76.7	20.2	79.0	20.5	81.3	20.7		
	35	54.2	13.7	64.7	17.4	73.3	20.8	74.4	19.5	75.5	21.0	77.8	21.2	80.1	21.5		
	37	54.2	14.5	64.7	18.5	72.2	21.5	73.2	20.1	74.3	21.7	76.7	22.0	79.0	22.2		
	39	54.2	15.4	64.7	19.7	71.0	22.2	72.0	20.8	73.2	22.5	75.5	22.7	77.8	23.0		
	41	54.2	17.7	64.7	22.6	69.5	24.8	69.9	23.1	72.0	25.1	74.3	25.4	76.6	25.7		
	43	54.2	18.7	64.7	24.0	67.8	25.6	68.4	23.7	70.8	25.9	72.6	26.2	74.7	26.5		
	46	54.2	20.4	62.7	25.0	63.8	25.6	64.7	24.0	66.8	26.6	68.4	26.9	70.4	27.2		
	48	41.3	18.7	42.8	19.6	43.7	20.2	44.6	19.1	45.0	20.8	45.5	21.5	46.0	22.2		
50	35.5	15.9	35.6	16.0	35.8	16.1	36.2	15.0	36.3	16.2	36.5	16.2	36.6	16.3			
100%	10	49.2	7.46	58.8	8.94	68.1	10.4	73.0	10.5	78.6	12.2	89.9	14.1	93.1	13.9		
	12	49.2	7.58	58.8	9.09	68.1	10.6	73.0	10.7	78.6	12.4	89.8	14.3	91.9	13.8		
	14	49.2	7.70	58.8	9.24	68.1	10.8	73.0	10.9	78.6	12.6	88.6	14.3	90.7	13.7		
	16	49.2	7.83	58.8	9.41	68.1	11.0	73.0	11.1	78.6	12.9	87.4	14.2	89.5	14.2		
	18	49.2	7.97	58.8	9.57	68.1	11.2	73.0	11.3	78.6	13.1	86.3	14.8	88.4	15.0		
	20	49.2	8.10	58.8	9.76	68.1	11.5	73.0	11.8	78.6	14.1	85.1	15.5	87.2	15.7		
	21	49.2	8.18	58.8	9.85	68.1	11.9	73.0	12.2	78.6	14.6	84.5	15.9	86.6	16.0		
	23	49.2	8.37	58.8	10.5	68.1	12.7	73.0	13.1	78.6	15.6	83.3	16.6	85.4	16.8		
	25	49.2	8.93	58.8	11.2	68.1	13.6	73.0	14.0	78.6	16.7	82.1	17.4	84.2	17.5		
	27	49.2	9.50	58.8	11.9	68.1	14.5</										

RXQ28ANRYFK Cooling capacity for VRV indoor units only (VRT)

Capacity ratio (%)	Outdoor air temp. °CDB	Indoor air temp. (°CWB)												Capacity ratio (%)	Outdoor air temp. °CDB	Indoor air temp. (°CWB)															
		14		16		18		19		20		22				24		14		16		18		19		20		22		24	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI		
130%	10	68.8	10.4	82.2	12.6	95.2	14.8	98.9	14.2	100	14.6	103	14.0	106	13.2	10	42.4	6.46	51.0	7.68	59.0	8.86	62.8	8.86	67.6	10.1	77.3	11.8	87.0	13.4	
	12	68.8	10.6	82.2	12.8	95.2	15.0	97.6	14.1	99.1	14.5	102	13.9	105	13.9	12	42.4	6.56	51.0	7.80	59.0	9.01	62.8	9.01	67.6	10.3	77.3	12.0	87.0	13.6	
	14	68.8	10.8	82.2	13.1	95.0	15.3	96.3	14.0	97.8	14.4	101	14.6	104	14.7	14	42.4	6.65	51.0	7.93	59.0	9.16	62.8	9.16	67.6	10.5	77.3	12.2	87.0	13.9	
	16	68.8	11.0	82.2	13.3	93.7	15.2	95.0	14.2	96.5	15.0	99.5	15.3	102	15.5	16	42.4	6.76	51.0	8.06	59.0	9.32	62.8	9.32	67.6	10.6	77.3	12.4	87.0	14.1	
	18	68.8	11.2	82.2	13.5	92.5	15.8	93.8	14.9	95.2	15.8	98.2	16.1	101	16.3	18	42.4	6.86	51.0	8.20	59.0	9.49	62.8	9.50	67.6	10.8	77.3	12.7	87.0	14.5	
	20	68.8	11.4	82.2	14.4	91.2	16.5	92.5	15.6	94.0	16.5	96.9	16.9	99.8	17.1	20	42.4	6.97	51.0	8.33	59.0	9.65	62.8	9.67	67.6	11.0	77.3	13.2	87.0	15.6	
	21	68.8	11.7	82.2	14.9	90.6	16.9	91.8	16.0	93.3	16.9	96.3	17.3	99.2	17.5	21	42.4	7.03	51.0	8.41	59.0	9.74	62.8	9.76	67.6	11.3	77.3	13.7	87.0	16.2	
	23	68.8	12.5	82.2	16.0	89.3	17.7	90.6	16.7	92.0	17.7	95.0	18.1	97.9	18.3	23	42.4	7.15	51.0	8.55	59.0	10.2	62.8	10.4	67.6	12.1	77.3	14.6	87.0	17.3	
	25	68.8	13.4	82.2	17.1	88.0	18.5	89.3	17.4	90.8	18.5	93.7	18.9	96.6	19.1	25	42.4	7.37	51.0	9.12	59.0	10.9	62.8	11.1	67.6	12.9	77.3	15.7	86.5	18.4	
	27	68.8	14.3	82.2	18.3	86.7	19.2	88.0	18.2	89.5	19.3	92.4	19.7	95.4	20.0	27	42.4	7.83	51.0	9.71	59.0	11.6	62.8	11.8	67.6	13.7	77.3	16.7	85.2	19.1	
	29	68.8	15.2	82.2	19.5	85.4	20.0	86.7	18.9	88.2	20.1	91.2	20.5	94.1	20.8	29	42.4	8.30	51.0	10.3	59.0	12.4	62.8	12.6	67.6	14.7	77.3	17.8	83.9	19.9	
	31	68.8	16.2	81.8	20.6	84.2	20.8	85.5	19.6	86.9	20.8	89.9	21.3	92.8	21.6	31	42.4	8.79	51.0	10.9	59.0	13.1	62.8	13.4	67.6	15.6	77.3	19.0	82.6	20.7	
	33	68.8	17.2	80.5	21.4	82.9	21.6	84.2	20.4	85.7	21.6	88.6	22.2	91.5	22.4	33	42.4	9.32	51.0	11.6	59.0	14.0	62.8	14.2	67.6	16.6	77.3	20.3	81.4	21.5	
	35	68.8	18.3	79.2	22.2	81.6	22.4	82.9	21.1	84.4	22.4	87.3	23.0	90.3	23.3	35	42.4	9.87	51.0	12.3	59.0	14.8	62.8	15.1	67.6	17.7	77.3	21.6	80.1	22.2	
	37	68.8	19.5	77.9	22.9	80.3	23.2	81.6	21.9	83.1	23.2	86.0	23.8	89.0	24.1	37	42.4	10.4	51.0	13.1	59.0	15.8	62.8	16.1	67.6	18.8	77.0	22.8	78.8	23.0	
	39	68.8	20.7	76.6	23.7	79.1	24.0	80.4	22.6	81.8	24.0	84.8	24.6	87.7	25.0	39	42.4	11.0	51.0	13.9	59.0	16.7	62.8	17.1	67.6	20.0	75.7	23.6	77.5	23.8	
	41	68.8	22.3	75.4	24.8	76.9	25.1	78.2	23.6	80.5	25.1	83.5	25.8	86.4	26.1	41	42.4	11.8	51.0	14.9	59.0	18.0	62.8	18.3	67.6	21.5	74.5	24.7	76.3	24.9	
	43	68.8	23.7	71.9	24.8	73.8	25.6	74.0	24.0	76.0	25.5	77.9	26.0	79.4	26.2	43	42.4	12.5	51.0	15.7	59.0	19.1	62.1	19.2	67.6	22.8	73.0	25.4	74.8	25.7	
	46	65.7	24.3	67.1	25.0	68.2	25.6	68.7	24.1	70.9	26.3	72.9	26.9	74.9	27.2	46	42.4	13.6	51.0	17.2	58.7	20.6	61.3	19.3	66.7	22.7	71.4	24.7	73.3	25.0	
48	43.4	17.8	44.6	18.4	45.4	19.0	46.9	18.8	47.0	20.1	47.2	21.0	48.5	21.6	48	42.4	14.3	49.8	17.6	52.5	18.9	53.1	17.5	53.6	19.9	54.9	20.8	56.6	21.5		
50	37.9	16.3	38.1	16.3	38.3	16.4	38.7	15.4	38.9	16.3	39.0	16.6	39.1	16.6	50	41.6	15.5	43.3	17.4	43.5	16.3	43.6	15.4	43.7	16.2	43.9	16.5	44.1	16.6		
120%	10	63.5	9.58	75.9	11.6	87.9	13.5	94.2	13.7	98.8	15.0	101	14.5	104	13.8	10	37.1	5.76	44.6	6.77	51.6	7.76	54.9	7.74	59.2	8.79	67.6	10.2	76.1	11.6	
	12	63.5	9.73	75.9	11.8	87.9	13.8	94.2	14.0	97.5	14.9	100	14.4	103	13.8	12	37.1	5.84	44.6	6.87	51.6	7.89	54.9	7.86	59.2	8.94	67.6	10.4	76.1	11.8	
	14	63.5	9.91	75.9	12.0	87.9	14.0	94.2	14.2	96.2	14.8	98.9	14.5	102	14.6	14	37.1	5.93	44.6	6.98	51.6	8.01	54.9	7.99	59.2	9.09	67.6	10.6	76.1	12.0	
	16	63.5	10.1	75.9	12.2	87.9	14.3	93.6	14.3	94.9	14.9	97.6	15.2	100	15.4	16	37.1	6.01	44.6	7.09	51.6	8.15	54.9	8.13	59.2	9.25	67.6	10.8	76.1	12.2	
	18	63.5	10.3	75.9	12.4	87.9	14.7	92.3	14.8	93.6	15.7	96.4	16.0	99.1	16.2	18	37.1	6.09	44.6	7.21	51.6	8.28	54.9	8.27	59.2	9.41	67.6	11.0	76.1	12.4	
	20	63.5	10.5	75.9	12.9	87.9	15.8	91.0	15.5	92.4	16.4	95.1	16.8	97.8	17.0	20	37.1	6.19	44.6	7.32	51.6	8.43	54.9	8.41	59.2	9.58	67.6	11.2	76.1	12.9	
	21	63.5	10.6	75.9	13.4	87.9	16.4	90.4	15.9	91.7	16.8	94.5	17.2	97.2	17.4	21	37.1	6.24	44.6	7.38	51.6	8.50	54.9	8.49	59.2	9.68	67.6	11.4	76.1	13.4	
	23	63.5	11.3	75.9	14.3	87.9	17.6	89.1	16.6	90.5	17.6	93.2	18.0	95.9	18.2	23	37.1	6.34	44.6	7.51	51.6	8.67	54.9	8.77	59.2	10.1	67.6	12.2	76.1	14.3	
	25	63.5	12.0	75.9	15.3	86.6	18.4	87.8	17.3	89.2	18.4	91.9	18.8	94.6	19.0	25	37.1	6.43	44.6	7.81	51.6	9.23	54.9	9.34	59.2	10.8	67.6	13.0	76.1	15.3	
	27	63.5	12.8	75.9	16.3	85.4	19.1	86.5	18.1	87.9	19.1	90.8	19.6	93.3	19.8	27	37.1	6.79	44.6	8.29	51.6	9.82	54.9	9.95	59.2	11.5	67.6	13.9	76.1	16.4	
	29	63.5	13.6	75.9	17.4	84.1	19.9	85.3	18.8	86.6	19.9	89.3	20.4	92.1	20.6	29	37.1	7.19	44.6	8.81	51.6	10.4	54.9	10.6	59.2	12.3	67.6	14.8	76.1	17.4	
	31	63.5	14.5	75.9	18.5	82.8	20.7	84.0	19.5	85.4	20.7	88.1	21.2	90.8	21.4	31	37.1	7.60	44.6	9.34	51.6	11.1	54.9	11.2	59.2	13.0	67.6	15.8	76.1	18.6	
	33	63.5	15.4	75.9	19.8	81.5	21.5	82.7	20.3	84.1	21.5	86.8	22.0	89.5	22.2	33	37.1	8.05	44.6	9.90	51.6	11.8	54.9	11.9	59.2	13.9	67.6	16.8	76.1	19.8	
	35	63.5	16.4	75.9	21.0	80.2	22.2	81.4	21.0	82.8	22.3	85.5	22.8	88.2	23.1	35	37.1	8.51	44.6	10.5	51.6	12.5	54.9	12.7	59.2	14.7	67.6	17.9	76.1	21.1	
	37	63.5	17.4	75.9	22.4	79.0	23.0	80.2	21.7	81.5	23.1	84.2	23.6	86.9	23.9	37	37.1	8.99	44.6	11.1	51.6	13.2	54.9	13.5	59.2	15.6	67.6	19.0	76.1	22.5	
	39	63.5	18.5	75.5	23.6	77.7	23.8	78.9	22.5	80.2	23.9	83.0	24.4	85.7	24.7	39	37.1	9.50	44.6	11.8	51.6	14.0	54.9	14.3	59.2	16.6	67.6	20.2	75.5	23.6	
	41	63.5	19.9	74.2	24.7	76.2	24.9	76.3	23.4	79.0	25.0	81.7																			

RXQ30ANRYFK Cooling capacity for VRV indoor units only (VRT)

Capacity ratio (%)	Outdoor air temp. °CDB	Indoor air temp. (°CWB)															
		14		16		18		19		20		22		24			
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI		
130%	10	74.5	11.3	89.0	13.6	103	15.9	107	15.4	109	15.9	112	15.2	115	14.3		
	12	74.5	11.5	89.0	13.9	103	16.2	106	15.3	107	15.8	110	15.0	114	15.0		
	14	74.5	11.7	89.0	14.1	103	16.5	104	15.2	106	15.8	109	15.7	112	15.9		
	16	74.5	11.9	89.0	14.4	102	16.4	103	15.3	105	16.4	108	16.6	111	16.7		
	18	74.5	12.1	89.0	14.6	100	17.0	102	16.1	103	17.2	106	17.5	109	17.6		
	20	74.5	12.3	89.0	15.6	98.7	17.8	100	16.9	102	18.1	105	18.3	108	18.5		
	21	74.5	12.6	89.0	16.1	98.1	18.3	99.5	17.3	101	18.5	104	18.7	107	18.9		
	23	74.5	13.5	89.0	17.3	96.7	19.1	98.1	18.1	99.7	19.3	103	19.6	106	19.8		
	25	74.5	14.4	89.0	18.5	95.3	19.9	96.7	18.9	98.3	20.2	101	20.5	105	20.7		
	27	74.5	15.4	89.0	19.7	93.9	20.8	95.3	19.7	96.9	21.0	100	21.3	103	21.5		
	29	74.5	16.4	89.0	21.1	92.5	21.6	93.9	20.5	95.5	21.9	98.7	22.2	102	22.4		
	31	74.5	17.5	88.5	22.3	91.1	22.5	92.5	21.3	94.1	22.8	97.3	23.1	100	23.3		
	33	74.5	18.6	87.1	23.1	89.8	23.3	91.1	22.1	92.7	23.6	95.9	24.0	99.1	24.2		
	35	74.5	19.8	85.8	23.9	88.4	24.2	89.8	22.9	91.4	24.5	94.5	24.9	97.7	25.1		
	37	74.5	21.0	84.4	24.8	87.0	25.0	88.4	23.7	90.0	25.4	93.2	25.7	96.3	26.0		
	39	74.5	22.4	83.0	25.6	85.6	25.9	87.0	24.5	88.6	26.3	91.8	26.6	95.0	26.9		
	41	74.5	23.8	81.6	26.5	82.6	26.7	83.9	25.2	87.2	27.2	90.4	27.6	93.6	27.9		
	43	74.5	25.3	75.3	25.7	78.7	27.2	78.8	25.5	82.4	27.6	85.1	28.0	87.8	28.3		
	46	69.5	25.0	71.2	25.9	72.9	26.8	73.8	25.7	76.4	28.4	78.5	28.7	80.6	28.9		
	48	38.6	18.0	39.4	18.6	39.6	19.2	40.3	18.4	40.5	19.8	40.8	20.4	40.7	21.0		
	50	34.9	15.8	35.0	15.9	35.2	15.9	35.6	15.1	36.0	16.1	36.1	16.2	36.4	16.2		
120%	10	68.8	10.4	82.2	12.5	95.1	14.6	102	14.9	107	16.4	110	15.6	113	14.9		
	12	68.8	10.5	82.2	12.7	95.1	14.9	102	15.1	106	16.3	108	15.6	111	14.9		
	14	68.8	10.7	82.2	13.0	95.1	15.1	102	15.4	104	16.2	107	15.6	110	15.8		
	16	68.8	10.9	82.2	13.2	95.1	15.4	101	15.5	103	16.3	106	15.6	109	16.6		
	18	68.8	11.1	82.2	13.4	95.1	15.9	99.9	16.0	101	17.1	104	17.3	107	17.5		
	20	68.8	11.3	82.2	14.0	95.1	17.1	98.5	16.8	100	18.0	103	18.2	106	18.3		
	21	68.8	11.4	82.2	14.4	95.1	17.7	97.9	17.2	99.3	18.4	102	18.6	105	18.8		
	23	68.8	12.2	82.2	15.5	95.1	18.9	96.5	18.0	97.9	19.2	101	19.4	104	19.6		
	25	68.8	13.0	82.2	16.5	93.8	19.8	95.1	18.8	96.6	20.1	99.5	20.3	102	20.5		
	27	68.8	13.8	82.2	17.6	92.4	20.6	93.7	19.6	95.2	20.9	98.1	21.2	101	21.4		
	29	68.8	14.7	82.2	18.8	91.0	21.5	92.3	20.4	93.8	21.8	96.7	22.2	99.7	22.2		
	31	68.8	15.7	82.2	20.0	89.7	22.3	90.9	21.1	92.4	22.6	95.4	22.9	98.3	23.1		
	33	68.8	16.7	82.2	21.4	88.3	23.2	89.6	21.9	91.0	23.5	94.0	23.8	96.9	24.0		
	35	68.8	17.7	82.2	22.7	86.9	24.0	88.2	22.7	89.7	24.3	92.6	24.7	95.5	24.9		
	37	68.8	18.8	82.2	24.2	85.5	24.9	86.8	23.6	88.3	25.2	91.2	25.5	94.1	25.8		
	39	68.8	20.0	81.7	25.5	84.1	25.7	85.4	24.4	86.9	26.1	89.8	26.4	92.8	26.7		
	41	68.8	21.3	80.3	26.3	82.4	26.6	82.5	25.0	85.5	26.9	88.4	27.3	91.4	27.6		
	43	68.8	22.6	75.3	25.7	78.7	27.2	78.8	25.5	82.4	27.6	85.1	28.0	87.8	28.3		
	46	68.7	24.7	71.2	25.9	72.9	26.8	73.8	25.7	76.4	28.4	78.5	28.7	80.6	28.9		
	48	38.5	17.9	39.1	18.5	39.5	19.1	40.2	18.3	40.5	19.7	40.6	20.3	40.7	20.9		
	50	34.8	15.8	34.9	15.9	35.1	15.9	35.5	15.1	35.8	16.1	36.1	16.1	36.3	16.2		
110%	10	63.1	9.48	75.3	11.4	87.2	13.3	93.5	13.5	101	15.6	108	16.1	111	15.4		
	12	63.1	9.64	75.3	11.6	87.2	13.5	93.5	13.8	101	15.9	107	16.1	109	15.3		
	14	63.1	9.81	75.3	11.8	87.2	13.8	93.5	14.0	101	16.1	105	16.0	108	15.6		
	16	63.1	9.98	75.3	12.0	87.2	14.0	93.5	14.3	101	16.4	104	16.4	106	16.5		
	18	63.1	10.1	75.3	12.2	87.2	14.3	93.5	14.6	99.7	17.0	102	17.2	105	17.3		
	20	63.1	10.3	75.3	12.5	87.2	15.1	93.5	15.7	98.3	17.9	101	18.1	104	18.2		
	21	63.1	10.4	75.3	12.8	87.2	15.6	93.5	16.3	97.6	18.3	100	18.5	103	18.6		
	23	63.1	10.9	75.3	13.7	87.2	16.7	93.5	17.4	96.2	19.1	98.9	19.3	102	19.5		
	25	63.1	11.6	75.3	14.7	87.2	17.9	93.5	18.6	94.9	19.9	97.5	20.2	100	20.3		
	27	63.1	12.4	75.3	15.6	87.2	19.1	92.1	19.4	93.5	20.8	96.2	21.0	98.9	21.2		
	29	63.1	13.2	75.3	16.7	87.2	20.4	90.7	20.2	92.1	21.6	94.8	21.9	97.5	22.1		
	31	63.1	14.0	75.3	17.7	87.2	21.8	89.4	21.0	90.7	22.5	93.4	22.7	96.1	22.9		
	33	63.1	14.9	75.3	18.9	86.8	23.0	88.0	21.8	89.3	23.3	92.0	23.6	94.7	23.8		
	35	63.1	15.8	75.3	20.1	85.4	23.8	86.6	22.6	87.9	24.2	90.6	24.5	93.3	24.7		
	37	63.1	16.8	75.3	21.4	84.0	24.7	85.2	23.4	86.6	25.0	89.3	25.3	91.9	25.6		
	39	63.1	17.8	75.3	22.7	82.6	25.5	83.8	24.2	85.2	25.9	87.9	26.2	90.6	26.4		
	41	63.1	18.9	75.3	24.1	80.9	26.4	81.0	24.8	83.8	26.7	86.5	27.1	89.2	27.3		
	43	63.1	20.0	75.3	25.7	78.4	27.2	78.8	25.5	82.4	27.6	85.1	28.0	87.8	28.3		
	46	63.1	21.9	71.2	25.9	72.9	26.8	73.8	25.7	76.4	28.4	78.5	28.7	80.6	28.9		
	48	38.3	17.8	39.0	18.4	39.4	19.0	40.1	18.1	40.4	19.6	40.5	20.2	40.6	20.8		
	50	34.8	15.8	34.8	15.9	35.0	15.9	35.5	15.0	35.7	16.0	36.0	16.1	36.1	16.2		
100%	10	57.3	8.63	68.5	10.3	79.2	12.0	85.0	12.2	91.5	14.1	105	16.3	108	16.0		
	12	57.3	8.77	68.5	10.5	79.2	12.2	85.0	12.4	91.5	14.3	105	16.5	107	15.9		
	14	57.3	8.91	68.5	10.7	79.2	12.4	85.0	12.6	91.5	14.6	103	16.5	106	15.8		
	16	57.3	9.07	68.5	10.9	79.2	12.6	85.0	12.9	91.5	14.8	102	16.4	104	16.4		
	18	57.3	9.22	68.5	11.1	79.2	12.9	85.0	13.1	91.5	15.1	100	17.1	103	17.2		
	20	57.3	9.38	68.5	11.3	79.2	13.2	85.0	13.7	91.5	16.2	99.0	17.9	101	18.0		
	21	57.3	9.47	68.5	11.4	79.2	13.7	85.0	14.2	91.5	16.8	98.4	18.3	101	18.5		
	23	57.3	9.69	68.5	12.1	79.2	14.7	85.0	15.2	91.5	18.0	97.0	19.2	99.4	19.3		
	25	57.3	10.3	68.5	12.9	79.2	15.7	85.0	16.3	91.5	19.2	95.6	20.0	98.0	20.1		
	27	57.3	11.0	68.5	13.8	79.2	16.7	85.0	17.4	91.5	20.6	94.2	20.8	96.7	21.0		
	29	57.3	11.7	68.5	14.7	79.2	17.8	85.0	18.5	90.4	21.5	92.8	21.7	95.3	21.9		
	31	57.3	12.4	68.5	15.6	79.2	19.0	85.0	19.8	89.0	22.3	91.4	22.5	93.9	22.7		
	33	57.3	13.2	68.5	16.6	79.2	20.2	85.0	21.1	87.6	23.1	90.1	23.3	92.5	23.6		

RXQ32ANRYFK Cooling capacity for VRV indoor units only (VRT)

Capacity ratio (%)	Outdoor air temp. °CDB	Indoor air temp. (°CWB)												Capacity ratio (%)	Outdoor air temp. °CDB	Indoor air temp. (°CWB)															
		14		16		18		19		20		22				24		14		16		18		19		20		22		24	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI		
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW			kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	
130%	10	78.8	12.1	94.3	14.6	109	17.1	113	16.5	115	17.1	118	16.3	122	15.4	10	48.6	7.53	58.5	8.96	67.7	10.3	72.0	10.4	77.5	11.9	88.6	13.7	99.7	15.6	
	12	78.9	12.3	94.3	14.9	109	17.5	112	16.5	114	17.0	117	16.1	120	16.2	12	48.6	7.64	58.5	9.09	67.7	10.5	72.0	10.5	77.5	12.1	88.6	13.9	99.7	15.8	
	14	78.9	12.5	94.3	15.2	109	17.7	110	16.4	112	16.9	115	16.9	119	17.1	14	48.6	7.75	58.5	9.24	67.7	10.7	72.0	10.7	77.5	12.3	88.6	14.2	99.7	16.1	
	16	78.9	12.7	94.3	15.4	107	17.6	109	16.5	111	17.6	114	17.8	117	18.0	16	48.6	7.88	58.5	9.39	67.7	10.8	72.0	10.9	77.5	12.5	88.6	14.4	99.7	16.4	
	18	78.9	13.0	94.3	15.7	106	18.3	107	17.4	109	18.5	113	18.7	116	18.9	18	48.6	7.99	58.5	9.55	67.7	11.1	72.0	11.1	77.5	12.7	88.6	14.7	99.7	16.9	
	20	78.9	13.2	94.3	16.7	105	19.2	106	18.2	108	19.4	111	19.7	114	19.9	20	48.6	8.12	58.5	9.70	67.7	11.2	72.0	11.3	77.5	13.0	88.6	15.4	99.7	18.1	
	21	78.9	13.6	94.3	17.3	104	19.6	105	18.6	107	19.9	110	20.1	114	20.3	21	48.6	8.19	58.5	9.79	67.7	11.3	72.0	11.4	77.5	13.3	88.6	15.9	99.7	18.8	
	23	78.9	14.5	94.3	18.5	102	20.5	104	19.5	106	20.8	109	21.0	112	21.3	23	48.6	8.32	58.5	9.96	67.7	11.9	72.0	12.1	77.5	14.2	88.6	17.0	99.7	20.1	
	25	78.9	15.5	94.3	19.8	101	21.4	102	20.3	104	21.7	107	22.0	111	22.2	25	48.6	8.58	58.5	10.6	67.7	12.7	72.0	12.9	77.5	15.1	88.6	18.2	99.1	21.3	
	27	78.9	16.5	94.3	21.2	99.4	22.3	101	21.2	103	22.6	106	22.9	109	23.2	27	48.6	9.10	58.5	11.3	67.7	13.5	72.0	13.8	77.5	16.1	88.6	19.4	97.7	22.2	
80%	29	78.9	17.6	94.3	22.6	98.0	23.3	99.4	22.0	101	23.5	105	23.8	108	24.1	29	48.6	9.65	58.5	12.0	67.7	14.4	72.0	14.7	77.5	17.2	88.6	20.7	96.2	23.1	
	31	78.9	18.8	93.7	23.9	96.5	24.2	98.0	22.9	99.7	24.5	103	24.8	106	25.1	31	48.6	10.2	58.5	12.7	67.7	15.3	72.0	15.6	77.5	18.3	88.6	22.1	94.7	24.0	
	33	78.9	20.0	92.3	24.8	95.0	25.1	96.5	23.8	98.2	25.4	102	25.7	105	26.1	33	48.6	10.8	58.5	13.5	67.7	16.3	72.0	16.6	77.5	19.5	88.6	23.5	93.3	24.9	
	35	78.9	21.2	90.8	25.7	93.6	26.0	95.0	24.6	96.7	26.3	100	26.7	103	27.0	35	48.6	11.5	58.5	14.3	67.7	17.3	72.0	17.7	77.5	20.7	88.6	25.1	91.8	25.8	
	37	78.9	22.6	89.3	26.6	92.1	26.9	93.6	25.5	95.3	27.3	98.6	27.6	102	28.0	37	48.6	12.1	58.5	15.2	67.7	18.3	72.0	18.8	77.5	22.1	88.3	26.5	90.4	26.7	
	39	78.9	24.0	87.9	27.5	90.6	27.8	92.1	26.4	93.8	28.2	97.2	28.6	101	29.0	39	48.6	12.8	58.5	16.1	67.7	19.5	72.0	19.9	77.5	23.4	88.6	27.4	88.9	27.7	
	41	78.9	25.5	86.4	28.4	87.4	28.8	88.9	27.1	92.3	29.2	95.7	29.6	99.1	30.0	41	48.6	13.6	58.5	17.1	67.7	20.6	72.0	21.2	77.5	24.9	85.4	28.3	87.4	28.6	
	43	78.9	27.1	79.8	27.5	83.3	29.3	83.4	27.5	87.3	29.7	90.1	30.0	93.0	30.4	43	48.6	14.4	58.5	18.1	67.7	21.9	70.6	21.9	77.5	26.5	83.6	29.2	85.6	29.4	
	46	72.7	26.4	74.5	27.4	76.3	28.3	77.2	27.2	80.7	30.5	82.9	30.8	85.1	31.1	46	48.6	15.6	58.5	19.7	67.1	23.7	69.0	20.7	75.6	24.4	81.3	26.6	83.3	26.9	
	48	41.6	19.4	43.0	20.0	43.4	20.6	44.7	19.8	44.8	21.3	44.8	21.9	44.8	22.6	48	48.6	16.5	56.1	19.8	57.5	20.4	58.2	19.5	58.7	21.0	60.1	21.6	61.4	22.3	
50	36.6	16.8	36.6	16.9	37.0	17.0	37.7	16.1	38.0	17.1	38.1	17.2	38.2	17.3	50	47.1	16.8	47.3	16.9	47.5	17.0	47.6	16.1	47.7	17.1	47.9	17.2	48.1	17.3		
120%	10	72.8	11.1	87.0	13.4	101	15.7	108	16.0	113	17.6	116	16.8	119	16.0	10	42.5	6.73	51.2	7.90	59.2	9.05	63.0	9.06	67.8	10.4	77.5	11.9	87.2	13.5	
	12	72.8	11.3	87.0	13.7	101	16.0	108	16.3	112	17.5	115	16.7	118	16.0	12	42.5	6.82	51.2	8.02	59.2	9.20	63.0	9.22	67.8	10.5	77.5	12.1	87.2	13.7	
	14	72.8	11.5	87.0	13.9	101	16.3	108	16.6	110	17.4	113	16.8	117	17.0	14	42.5	6.92	51.2	8.15	59.2	9.35	63.0	9.36	67.8	10.7	77.5	12.3	87.2	13.9	
	16	72.8	11.7	87.0	14.1	101	16.6	107	16.7	109	17.5	112	17.7	115	17.9	16	42.5	7.01	51.2	8.28	59.2	9.50	63.0	9.51	67.8	10.9	77.5	12.5	87.2	14.2	
	18	72.8	11.9	87.0	14.4	101	17.1	106	17.2	107	18.4	110	18.6	114	18.8	18	42.5	7.10	51.2	8.40	59.2	9.66	63.0	9.69	67.8	11.1	77.5	12.7	87.2	14.5	
	20	72.8	12.1	87.0	15.0	101	18.4	104	18.1	106	19.3	109	19.5	112	19.7	20	42.5	7.21	51.2	8.53	59.2	9.83	63.0	9.84	67.8	11.3	77.5	13.0	87.2	15.0	
	21	72.8	12.2	87.0	15.5	101	19.0	104	18.5	105	19.7	108	20.0	111	20.2	21	42.5	7.27	51.2	8.61	59.2	9.90	63.0	9.93	67.8	11.4	77.5	13.3	87.2	15.6	
	23	72.8	13.1	87.0	16.6	101	20.4	102	19.4	104	20.6	107	20.9	110	21.1	23	42.5	7.38	51.2	8.76	59.2	10.1	63.0	10.3	67.8	11.9	77.5	14.2	87.2	16.7	
	25	72.8	13.9	87.0	17.7	99.3	21.3	101	20.2	102	21.6	105	21.8	108	22.0	25	42.5	7.49	51.2	9.11	59.2	10.8	63.0	10.9	67.8	12.7	77.5	15.1	87.2	17.8	
	27	72.8	14.9	87.0	18.9	97.9	22.2	99.2	21.1	101	22.5	104	22.7	107	23.0	27	42.5	7.92	51.2	9.66	59.2	11.4	63.0	11.6	67.8	13.6	77.5	16.2	87.2	19.0	
70%	29	72.8	15.8	87.0	20.2	96.4	23.1	97.8	21.9	99.3	23.4	102	23.7	106	23.9	29	42.5	8.38	51.2	10.3	59.2	12.2	63.0	12.4	67.8	14.4	77.5	17.2	87.2	20.3	
	31	72.8	16.8	87.0	21.5	94.9	24.0	96.3	22.8	97.9	24.3	101	24.6	104	24.9	31	42.5	8.86	51.2	10.9	59.2	12.9	63.0	13.1	67.8	15.4	77.5	18.3	87.2	21.6	
	33	72.8	17.9	87.0	22.9	93.5	24.9	94.8	23.6	96.4	25.2	99.5	25.5	103	25.8	33	42.5	9.38	51.2	11.5	59.2	13.7	63.0	14.0	67.8	16.3	77.5	19.5	87.2	23.0	
	35	72.8	19.0	87.0	24.4	92.0	25.8	93.4	24.5	94.9	26.1	98.0	26.5	101	26.8	35	42.5	9.91	51.2	12.2	59.2	14.6	63.0	14.8	67.8	17.3	77.5	20.8	87.2	24.5	
	37	72.8	20.2	87.0	26.0	90.5	26.7	91.9	25.3	93.5	27.1	96.6	27.4	99.7	27.7	37	42.5	10.5	51.2	12.9	59.2	15.4	63.0	15.7	67.8	18.4	77.5	22.1	87.2	26.1	
	39	72.8	21.5	86.5	27.4	89.1	27.7	90.4	26.2	92.0	28.0	95.1	28.4	98.2	28.7	39	42.5	11.1	51.2	13.7	59.2	16.3	63.0	16.7	67.8	19.5	77.5	23.4	86.6	27.4	
	41	72.8	22.8	85.0	28.3	87.2	28.6	87.3	26.9	90.5	28.9																				

RXQ34ANRYFK Cooling capacity for VRV indoor units only (VRT)

Capacity ratio (%)	Outdoor air temp. °CDB	Indoor air temp. (°CWB)															
		14		16		18		19		20		22		24			
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
130%	10	83.4	12.4	99.5	15.1	115	17.7	120	16.8	121	17.3	125	16.8	129	15.9		
	12	83.3	12.7	99.5	15.4	115	18.0	118	16.7	120	17.2	123	16.6	127	16.7		
	14	83.3	12.9	99.5	15.6	115	18.3	117	16.6	118	17.1	122	17.4	125	17.6		
	16	83.3	13.1	99.5	15.9	113	18.2	115	16.8	117	17.8	120	18.4	124	18.6		
	18	83.3	13.4	99.5	16.2	112	18.9	113	17.6	115	18.7	119	19.3	122	19.5		
	20	83.3	13.6	99.5	17.3	110	19.8	112	18.5	114	19.7	117	20.2	121	20.5		
	21	83.3	14.0	99.5	17.9	110	20.3	111	18.9	113	20.1	116	20.7	120	21.0		
	23	83.3	15.0	99.5	19.2	108	21.2	110	19.8	111	21.0	115	21.7	118	21.9		
	25	83.3	16.0	99.5	20.5	106	22.1	108	20.6	110	21.9	113	22.6	117	22.9		
	27	83.3	17.1	99.5	21.9	105	23.0	107	21.5	108	22.9	112	23.6	115	23.9		
	29	83.3	18.2	99.5	23.4	103	24.0	105	22.4	107	23.8	110	24.5	114	24.9		
	31	83.3	19.4	98.9	24.7	102	24.9	103	23.3	105	24.8	109	25.5	112	25.9		
	33	83.3	20.6	97.4	25.6	100	25.9	102	24.1	104	25.7	107	26.5	111	26.9		
	35	83.3	22.0	95.9	26.6	98.8	26.8	100	25.0	102	26.6	106	27.5	109	27.9		
	37	83.3	23.4	94.3	27.5	97.2	27.8	98.8	25.9	101	27.6	104	28.5	108	28.9		
	39	83.3	24.8	92.8	28.5	95.7	28.7	97.2	26.8	99.0	28.6	103	29.5	106	29.9		
	41	83.3	26.6	91.2	31.8	94.1	32.2	95.7	30.0	97.5	32.0	101	33.0	105	33.5		
	43	83.3	30.3	90.7	33.0	91.2	32.9	91.5	30.6	91.9	32.4	93.2	33.1	94.1	33.1		
	46	83.3	33.2	85.3	34.0	85.7	34.0	86.4	31.5	87.7	33.6	89.9	34.5	92.5	34.9		
	48	66.0	25.4	67.9	26.5	69.6	27.3	71.5	27.1	71.9	29.2	72.9	30.7	75.8	31.7		
	50	56.5	23.2	56.7	23.3	57.0	23.3	57.1	21.7	57.2	23.1	57.5	23.6	57.7	23.7		
120%	10	76.9	11.5	91.8	13.8	107	16.2	114	16.2	120	17.8	123	17.3	126	16.5		
	12	76.9	11.6	91.8	14.1	107	16.5	114	16.5	118	17.7	121	17.2	125	16.5		
	14	76.9	11.8	91.8	14.3	107	16.8	114	16.8	116	17.6	120	17.3	123	17.5		
	16	76.9	12.1	91.8	14.6	107	17.1	113	16.9	115	17.7	118	18.2	121	18.4		
	18	76.9	12.3	91.8	14.9	107	17.6	112	17.5	113	18.6	117	19.2	120	19.4		
	20	76.9	12.5	91.8	15.4	107	18.9	110	18.4	112	19.5	115	20.1	118	20.3		
	21	76.9	12.6	91.8	16.0	107	19.6	109	18.8	111	20.0	114	20.6	118	20.8		
	23	76.9	13.5	91.8	17.1	107	21.0	108	19.6	109	20.9	113	21.5	116	21.1		
	25	76.9	14.4	91.8	18.3	105	22.0	106	20.5	108	21.8	111	22.5	114	22.7		
	27	76.9	15.3	91.8	19.5	103	22.9	105	21.4	106	22.7	110	23.4	113	23.7		
	29	76.9	16.3	91.8	20.8	102	23.8	103	22.2	105	23.6	108	24.4	111	24.7		
	31	76.9	17.4	91.8	22.2	100	24.8	102	23.1	103	24.6	107	25.3	110	25.6		
	33	76.9	18.5	91.8	23.7	98.7	25.7	100	24.0	102	25.5	105	26.3	108	26.6		
	35	76.9	19.7	91.8	25.2	97.1	26.6	98.6	24.9	100	26.5	103	27.2	107	27.6		
	37	76.9	20.9	91.8	26.8	95.6	27.6	97.0	25.7	98.7	27.4	102	28.3	105	28.6		
	39	76.9	22.2	91.3	28.3	94.0	28.5	95.5	26.6	97.1	28.3	100	29.2	104	29.6		
	41	76.9	25.5	89.8	31.7	92.5	31.9	92.6	29.6	95.6	31.8	98.9	32.7	102	33.2		
	43	76.9	27.1	89.2	32.7	89.7	32.7	90.1	30.4	90.8	32.2	93.1	32.8	93.8	32.9		
	46	76.9	29.5	85.3	34.0	85.7	34.0	86.3	31.5	87.7	33.6	89.9	34.5	92.5	34.9		
	48	66.0	25.4	67.9	26.5	69.6	27.3	71.5	27.1	71.9	29.2	72.9	30.7	75.7	31.7		
	50	56.4	23.1	56.7	23.3	57.0	23.3	57.1	21.7	57.2	23.0	57.5	23.6	57.7	23.7		
110%	10	70.7	10.5	84.2	12.6	97.9	14.7	105	14.7	113	16.9	121	17.8	124	17.1		
	12	70.7	10.6	84.2	12.8	97.9	15.0	105	15.0	113	17.2	119	17.7	122	17.0		
	14	70.7	10.8	84.2	13.0	97.9	15.2	105	15.3	113	17.5	118	17.7	121	17.4		
	16	70.7	11.0	84.2	13.3	97.9	15.5	105	15.6	113	17.9	116	18.1	119	18.3		
	18	70.7	11.2	84.2	13.5	97.9	15.8	105	16.0	111	18.5	114	19.0	117	19.2		
	20	70.7	11.4	84.2	13.8	97.9	16.7	105	17.2	110	19.4	113	19.9	116	20.2		
	21	70.7	11.5	84.2	14.2	97.9	17.3	105	17.8	109	19.9	112	20.4	115	20.6		
	23	70.7	12.0	84.2	15.2	97.9	18.5	105	20.0	108	20.8	111	21.4	114	21.6		
	25	70.7	12.8	84.2	16.2	97.9	19.8	105	20.4	106	21.7	109	22.3	112	22.5		
	27	70.7	13.7	84.2	17.3	97.9	21.2	103	21.2	104	22.6	107	23.2	110	23.5		
	29	70.7	14.5	84.2	18.4	97.9	22.6	101	22.1	103	23.5	106	24.2	109	24.4		
	31	70.7	15.5	84.2	19.7	97.9	24.1	99.9	23.0	101	24.4	104	25.1	107	25.4		
	33	70.7	16.4	84.2	20.9	97.4	25.8	98.3	23.8	99.8	25.3	103	26.1	106	26.4		
	35	70.7	17.5	84.2	22.3	95.5	26.5	96.8	24.7	98.3	26.3	101	27.0	104	27.4		
	37	70.7	18.6	84.2	23.7	93.9	27.4	95.2	25.6	96.7	27.2	99.7	28.0	103	28.3		
	39	70.7	19.7	84.2	25.2	92.4	28.3	93.7	26.4	95.2	28.1	98.2	29.0	101	29.3		
	41	70.7	22.6	84.2	29.0	90.6	31.7	91.1	29.4	93.6	31.5	96.7	32.5	99.7	32.9		
	43	70.7	24.0	84.2	30.8	88.5	32.7	88.9	30.2	90.7	32.5	93.1	33.4	93.8	33.9		
	46	70.7	26.2	84.9	33.8	85.7	34.0	86.3	31.5	87.6	33.6	89.9	34.5	92.5	34.9		
	48	66.0	25.4	67.9	26.5	69.6	27.3	71.4	27.1	71.8	29.2	72.9	30.7	75.6	31.7		
	50	56.4	23.1	56.6	23.2	56.9	23.3	57.0	21.7	57.1	23.0	57.4	23.5	57.7	23.7		
100%	10	64.1	9.50	76.5	11.4	88.9	13.3	95.0	13.3	102	15.2	117	18.0	121	17.7		
	12	64.1	9.65	76.5	11.6	88.9	13.5	95.0	13.5	102	15.5	117	18.3	120	17.6		
	14	64.1	9.80	76.5	11.8	88.9	13.7	95.0	13.8	102	15.8	115	18.2	118	17.5		
	16	64.1	9.97	76.5	12.0	88.9	14.0	95.0	14.0	102	16.1	114	18.1	117	18.1		
	18	64.1	10.2	76.5	12.2	88.9	14.2	95.0	14.3	102	16.4	112	18.9	115	19.1		
	20	64.1	10.3	76.5	12.4	88.9	14.6	95.0	15.0	102	17.6	111	19.8	113	20.0		
	21	64.1	10.4	76.5	12.5	88.9	15.2	95.0	15.5	102	18.2	110	20.3	113	20.5		
	23	64.1	10.7	76.5	13.4	88.9	16.2	95.0	16.6	102	19.5	108	21.2	111	21.4		
	25	64.1	11.4	76.5	14.2	88.9	17.3	95.0	17.8	102	20.9	107	22.1	110	22.4		
	27	64.1	12.1	76.5	15.2	88.9	18.5	95.0	19.0	102	22.3	105	23.1	108	23.3		
	29	64.1	12.9	76.5	16.2	88.9	19.7	95.0	20.2	101	23.3	104	24.0	106	24.2		
	31	64.1	13.7	76.5	17.2	88.9	21.0	95.0	21.6	99.5	24.3	102	24.9	105	25.2		
	33	64.1	14.5	76.5	18.3	88.9	22.4	95.0	23.0	97.9	25.2	101	25.9	103	26.1		</

RXQ36ANRYFK Cooling capacity for VRV indoor units only (VRT)

Capacity ratio (%)	Outdoor air temp.	Indoor air temp. (°CWB)															
		14		16		18		19		20		22		24			
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI		
130%	°CDB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	
	10	88.2	13.1	105	15.9	122	18.6	127	17.7	128	18.1	132	17.6	136	16.7		
	12	88.1	13.4	105	16.2	122	18.9	125	17.6	127	18.0	131	17.5	134	17.5		
	14	88.1	13.6	105	16.4	122	19.2	123	17.6	125	17.9	129	18.3	133	18.5		
	16	88.1	13.8	105	16.7	120	19.1	122	17.7	124	18.6	127	19.3	131	19.5		
	18	88.1	14.1	105	17.1	118	19.8	120	18.6	122	19.5	126	20.3	129	20.5		
	20	88.1	14.4	105	18.2	117	20.8	118	19.5	120	20.5	124	21.3	128	21.5		
	21	88.1	14.8	105	18.8	116	21.3	118	20.0	119	21.0	123	21.8	127	22.1		
	23	88.1	15.8	105	20.1	114	22.3	116	20.9	118	21.9	122	22.8	125	23.1		
	25	88.1	16.8	105	21.6	113	23.3	114	21.8	116	22.9	120	23.8	124	24.1		
	27	88.1	18.0	105	23.1	111	24.2	113	22.7	115	23.9	118	24.8	122	25.1		
	29	88.1	19.2	105	24.6	109	25.2	111	23.6	113	24.9	117	25.8	120	26.2		
	31	88.1	20.4	105	26.0	108	26.2	109	24.6	111	25.8	115	26.9	119	27.2		
	33	88.1	21.7	103	27.0	106	27.2	108	25.5	110	26.8	113	27.9	117	28.2		
	35	88.1	23.1	101	28.0	104	28.2	106	26.4	108	27.8	112	28.9	116	29.3		
	37	88.1	24.6	99.8	28.9	103	29.2	104	27.4	106	28.8	110	29.9	114	30.3		
	39	88.1	26.2	98.1	29.9	101	30.2	103	28.3	105	29.8	109	31.0	112	31.4		
	41	88.1	28.6	96.5	31.8	99.6	32.1	101	30.1	103	31.7	107	33.0	111	33.4		
	43	88.1	30.4	96.0	33.0	96.5	32.9	96.8	30.7	97.0	32.1	98.4	33.1	98.7	33.1		
	46	88.1	33.3	89.7	34.0	90.1	33.9	90.3	31.7	91.7	33.3	94.4	34.5	97.1	34.9		
48	67.8	24.4	69.5	25.2	71.2	25.9	73.6	26.7	73.9	28.3	74.5	30.0	78.2	31.0			
50	58.8	23.5	59.1	23.5	59.3	23.6	59.5	22.1	59.6	23.1	59.9	23.9	60.1	24.0			
120%	10	81.3	12.1	97.1	14.5	113	17.0	121	17.2	126	18.6	130	18.2	133	17.3		
	12	81.3	12.2	97.1	14.8	113	17.3	121	17.4	125	18.5	128	18.1	132	17.4		
	14	81.3	12.5	97.1	15.1	113	17.6	121	17.8	123	18.4	127	18.2	130	18.4		
	16	81.3	12.7	97.1	15.3	113	18.0	120	17.9	122	18.5	125	19.2	128	19.4		
	18	81.3	12.9	97.1	15.6	113	18.5	118	18.5	120	19.4	123	20.1	127	20.4		
	20	81.3	13.2	97.1	16.2	113	19.9	117	19.4	118	20.4	122	21.1	125	21.4		
	21	81.3	13.3	97.1	16.8	113	20.6	116	19.9	117	20.9	121	21.6	124	21.9		
	23	81.3	14.2	97.1	18.0	113	22.1	114	20.7	116	21.8	119	22.6	123	22.9		
	25	81.3	15.1	97.1	19.2	111	23.1	112	21.7	114	22.8	118	23.6	121	23.9		
	27	81.3	16.1	97.1	20.6	109	24.1	111	22.6	113	23.7	116	24.6	119	24.9		
	29	81.3	17.2	97.1	21.9	108	25.0	109	23.5	111	24.7	114	25.6	118	25.9		
	31	81.3	18.3	97.1	23.4	106	26.0	108	24.4	109	25.7	113	26.6	116	27.0		
	33	81.3	19.5	97.1	24.9	104	27.0	106	25.3	108	26.6	111	27.7	115	28.0		
	35	81.3	20.7	97.1	26.5	103	28.0	104	26.3	106	27.6	109	28.7	113	29.0		
	37	81.3	22.0	97.1	28.2	101	29.0	103	27.2	104	28.6	108	29.7	111	30.1		
	39	81.3	23.4	96.6	29.8	99.5	30.0	101	28.1	103	29.6	106	30.7	110	31.1		
	41	81.3	25.5	95.0	31.6	97.8	31.9	98.0	29.7	101	31.5	105	32.7	108	33.1		
	43	81.3	27.1	94.4	32.8	94.9	32.7	95.1	30.5	95.3	31.9	98.4	32.8	98.4	32.9		
	46	81.3	29.9	89.7	34.0	90.1	33.9	90.3	31.7	91.7	33.3	94.4	34.3	97.1	34.9		
	48	67.8	24.4	69.5	25.2	71.2	25.9	73.6	26.7	73.9	28.3	74.5	30.0	77.9	31.0		
50	58.8	23.5	59.1	23.5	59.3	23.6	59.5	22.1	59.6	23.1	59.9	23.9	60.1	24.0			
110%	10	74.9	11.0	89.1	13.2	104	15.5	111	15.6	119	17.6	128	18.8	131	18.0		
	12	74.9	11.2	89.1	13.5	104	15.7	111	15.9	119	18.0	126	18.7	129	17.9		
	14	74.9	11.4	89.1	13.7	104	16.0	111	16.1	119	18.3	124	18.6	128	18.2		
	16	74.9	11.6	89.1	13.9	104	16.3	111	16.4	119	18.6	123	19.0	126	19.2		
	18	74.9	11.8	89.1	14.2	104	16.6	111	16.9	118	19.3	121	20.0	124	20.2		
	20	74.9	12.0	89.1	14.5	104	17.6	111	18.1	116	20.3	119	21.0	123	21.2		
	21	74.9	12.1	89.1	14.9	104	18.2	111	18.8	115	20.7	119	21.5	122	21.7		
	23	74.9	12.7	89.1	15.9	104	19.5	111	20.1	114	21.7	117	22.5	120	22.7		
	25	74.9	13.5	89.1	17.0	104	20.9	111	21.5	112	22.6	115	23.4	119	23.7		
	27	74.9	14.4	89.1	18.2	104	22.3	109	22.4	111	23.6	114	24.4	117	24.7		
	29	74.9	15.3	89.1	19.4	104	23.8	107	23.3	109	24.5	112	25.4	115	25.7		
	31	74.9	16.3	89.1	20.7	104	25.4	106	24.3	107	25.5	110	26.4	114	26.7		
	33	74.9	17.3	89.1	22.0	103	26.9	104	25.2	106	26.4	109	27.4	112	27.7		
	35	74.9	18.4	89.1	23.4	101	27.8	102	26.1	104	27.4	107	28.4	110	28.8		
	37	74.9	19.6	89.1	24.9	99.3	28.8	101	27.0	102	28.4	106	29.4	109	29.8		
	39	74.9	20.8	89.1	26.5	97.7	29.8	99.1	27.9	101	29.4	104	30.5	107	30.8		
	41	74.9	22.7	89.1	29.0	96.1	31.7	96.2	29.5	99.1	31.2	102	32.4	105	32.8		
	43	74.9	24.0	89.1	30.8	93.3	32.7	93.4	30.3	95.3	32.2	98.3	33.5	98.4	33.9		
	46	74.9	26.3	89.1	33.7	90.1	33.9	90.3	31.7	91.7	33.3	94.4	34.5	97.1	34.9		
	48	67.8	24.4	69.5	25.2	71.2	25.9	73.5	26.7	73.7	28.3	74.5	30.0	77.9	31.0		
50	58.7	23.4	59.0	23.5	59.3	23.6	59.4	22.0	59.5	23.1	59.8	23.8	60.1	24.0			
100%	10	67.8	10.0	81.0	12.0	94.0	13.9	100	14.0	108	15.9	124	18.9	128	18.6		
	12	67.8	10.2	81.0	12.2	94.0	14.2	100	14.3	108	16.2	124	19.2	127	18.5		
	14	67.8	10.3	81.0	12.4	94.0	14.4	100	14.5	108	16.5	122	19.1	125	18.4		
	16	67.8	10.5	81.0	12.6	94.0	14.7	100	14.8	108	16.8	120	19.0	123	19.1		
	18	67.8	10.7	81.0	12.8	94.0	15.0	100	15.1	108	17.1	119	19.9	122	20.1		
	20	67.8	10.9	81.0	13.1	94.0	15.4	100	15.8	108	18.4	117	20.8	120	21.0		
	21	67.8	11.0	81.0	13.2	94.0	15.9	100	16.4	108	19.0	116	21.3	119	21.5		
	23	67.8	11.3	81.0	14.1	94.0	17.0	100	17.5	108	20.4	115	22.3	118	22.5		
	25	67.8	12.0	81.0	15.0	94.0	18.2	100	18.8	108	21.8	113	23.2	116	23.5		
	27	67.8	12.8	81.0	16.0	94.0	19.4	100	20.0	108							

RXQ38ANRYFK Cooling capacity for VRV indoor units only (VRT)

Capacity ratio (%)	Outdoor air temp. °CDB	Indoor air temp. (°CWB)															
		14		16		18		19		20		22		24			
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI		
130%	10	93.4	14.1	112	17.1	129	20.1	134	19.1	136	19.9	140	19.0	144	18.0		
	12	93.4	14.4	112	17.4	129	20.4	132	19.0	134	19.7	138	18.9	142	18.9		
	14	93.4	14.6	112	17.7	129	20.8	131	18.9	133	19.6	137	19.8	141	20.0		
	16	93.4	14.9	112	18.1	127	20.7	129	19.1	131	20.4	135	20.8	139	21.1		
	18	93.4	15.2	112	18.4	125	21.4	127	20.1	129	21.5	133	21.9	137	22.2		
	20	93.4	15.4	112	19.6	124	22.5	125	21.1	127	22.5	131	23.0	135	23.2		
	21	93.4	15.9	112	20.3	123	23.0	125	21.6	127	23.1	131	23.5	135	23.8		
	23	93.4	17.0	112	21.7	121	24.0	123	22.5	125	24.1	129	24.6	133	24.9		
	25	93.4	18.1	112	23.2	119	25.1	121	23.5	123	25.2	127	25.7	131	26.0		
	27	93.4	19.3	112	24.8	118	26.1	119	24.5	121	26.2	125	26.8	129	27.1		
	29	93.4	20.6	112	26.5	116	27.2	118	25.5	120	27.3	124	27.9	128	28.2		
	31	93.4	22.0	111	28.0	114	28.3	116	26.5	118	28.4	122	29.0	126	29.3		
	33	93.4	23.4	109	29.1	112	29.3	114	27.5	116	29.5	120	30.1	124	30.5		
	35	93.4	24.9	107	30.1	111	30.4	112	28.5	114	30.5	118	31.2	122	31.6		
	37	93.4	26.4	106	31.2	109	31.5	111	29.5	113	31.6	117	32.3	121	32.8		
	39	93.4	28.1	104	32.2	107	32.6	109	30.6	111	32.7	115	33.4	119	33.9		
	41	93.4	31.8	102	35.5	105	35.8	106	33.5	109	36.0	113	36.8	117	37.3		
	43	93.4	33.8	98.6	35.7	101	36.6	101	34.1	103	36.5	105	37.0	108	37.3		
	46	90.3	35.3	92.6	36.3	93.8	36.8	94.9	34.5	97.5	37.7	99.9	38.4	103	38.9		
	48	64.2	27.0	66.2	28.1	67.6	29.0	69.3	28.1	69.7	30.4	70.4	31.6	72.2	32.7		
	50	55.2	23.8	55.4	23.9	55.7	24.0	56.1	22.4	56.3	23.9	56.6	24.2	56.8	24.4		
120%	10	86.2	13.0	103	15.7	119	18.4	128	18.5	134	20.4	138	19.6	141	18.7		
	12	86.2	13.2	103	16.0	119	18.7	128	18.8	132	20.3	136	19.5	140	18.8		
	14	86.2	13.4	103	16.2	119	19.0	128	19.2	131	20.2	134	19.6	138	19.8		
	16	86.2	13.7	103	16.5	119	19.4	127	19.3	129	20.3	132	20.7	136	20.9		
	18	86.2	13.9	103	16.9	119	20.0	125	20.0	127	21.3	131	21.7	134	22.0		
	20	86.2	14.2	103	17.5	119	21.5	123	20.9	125	22.4	129	22.8	133	23.1		
	21	86.2	14.3	103	18.1	119	22.3	123	21.4	124	22.9	128	23.3	132	23.6		
	23	86.2	15.3	103	19.4	119	23.8	121	22.4	123	24.0	126	24.4	130	24.7		
	25	86.2	16.3	103	20.7	118	24.9	119	23.4	121	25.0	125	25.5	128	25.8		
	27	86.2	17.4	103	22.1	116	26.0	117	24.4	119	26.1	123	26.6	127	26.9		
	29	86.2	18.5	103	23.6	114	27.0	116	25.4	118	27.1	121	27.7	125	28.0		
	31	86.2	19.7	103	25.2	112	28.1	114	26.4	116	28.2	119	28.7	123	29.1		
	33	86.2	20.9	103	26.8	111	29.2	112	27.3	114	29.3	118	29.8	121	30.2		
	35	86.2	22.3	103	28.6	109	30.2	110	28.3	112	30.3	116	30.9	120	31.3		
	37	86.2	23.7	103	30.4	107	31.3	109	29.3	111	31.4	114	32.0	118	32.5		
	39	86.2	25.1	102	32.0	105	32.4	107	30.4	109	32.5	113	33.2	116	33.6		
	41	86.2	28.4	101	35.3	103	35.6	104	33.1	107	35.8	111	36.5	114	37.0		
	43	86.2	30.1	97.6	35.6	99.7	36.5	100	33.9	103	36.4	105	36.9	108	37.1		
	46	86.1	32.9	92.6	36.3	93.8	36.8	94.8	34.5	97.5	37.7	99.9	38.4	103	38.9		
	48	64.1	26.9	66.1	28.0	67.5	28.9	69.2	28.0	69.7	30.3	70.4	31.6	72.1	32.6		
	50	55.1	23.7	55.3	23.9	55.7	24.0	56.1	22.4	56.3	23.9	56.5	24.2	56.7	24.4		
110%	10	79.1	11.9	94.4	14.3	110	16.7	117	16.8	126	19.4	135	20.3	139	19.4		
	12	79.1	12.1	94.4	14.5	110	17.0	117	17.1	126	19.8	133	20.1	137	19.3		
	14	79.1	12.3	94.4	14.8	110	17.3	117	17.4	126	20.1	132	20.0	135	19.7		
	16	79.1	12.5	94.4	15.0	110	17.6	117	17.7	126	20.5	130	20.5	133	20.8		
	18	79.1	12.7	94.4	15.3	110	18.0	117	18.2	125	21.2	128	21.6	132	21.8		
	20	79.1	12.9	94.4	15.6	110	19.0	117	19.6	123	22.2	127	22.6	130	22.9		
	21	79.1	13.1	94.4	16.1	110	19.7	117	20.3	122	22.8	126	23.2	129	23.4		
	23	79.1	13.6	94.4	17.2	110	21.0	117	21.7	121	23.8	124	24.2	127	24.5		
	25	79.1	14.6	94.4	18.4	110	22.5	117	23.2	119	24.8	122	25.3	126	25.6		
	27	79.1	15.5	94.4	19.6	110	24.0	115	24.2	117	25.9	120	26.4	124	26.7		
	29	79.1	16.5	94.4	20.9	110	25.7	114	25.2	115	26.9	119	27.4	122	27.7		
	31	79.1	17.6	94.4	22.3	110	27.4	112	26.2	114	28.0	117	28.5	120	28.8		
	33	79.1	18.7	94.4	23.7	109	29.0	110	27.2	112	29.1	115	29.6	119	29.9		
	35	79.1	19.8	94.4	25.2	107	30.0	108	28.1	110	30.1	114	30.7	117	31.0		
	37	79.1	21.0	94.4	26.8	105	31.1	107	29.2	108	31.2	112	31.8	115	32.2		
	39	79.1	22.3	94.4	28.5	104	32.1	105	30.1	107	32.2	110	32.9	113	33.3		
	41	79.1	25.2	94.4	32.3	101	35.4	102	32.9	105	35.5	108	36.2	112	36.6		
	43	79.1	26.7	94.4	34.3	98.9	36.4	99.5	33.8	103	36.6	105	37.3	107	37.8		
	46	79.1	29.1	92.4	36.2	93.8	36.8	94.8	34.5	97.4	37.7	99.9	38.4	103	38.9		
	48	63.9	26.9	65.9	28.0	67.4	28.8	69.2	28.0	69.5	30.3	70.3	31.5	72.0	32.5		
	50	55.1	23.7	55.3	23.8	55.6	23.9	56.0	22.4	56.1	23.9	56.4	24.2	56.6	24.3		
100%	10	71.8	10.8	85.8	12.9	99.5	15.1	106	15.2	115	17.5	131	20.4	136	20.1		
	12	71.8	11.0	85.8	13.1	99.5	15.3	106	15.4	115	17.8	131	20.7	134	20.0		
	14	71.8	11.1	85.8	13.4	99.5	15.6	106	15.7	115	18.1	129	20.7	132	19.9		
	16	71.8	11.3	85.8	13.6	99.5	15.9	106	16.0	115	18.4	128	20.5	131	20.6		
	18	71.8	11.5	85.8	13.8	99.5	16.2	106	16.3	115	18.8	126	21.4	129	21.6		
	20	71.8	11.7	85.8	14.1	99.5	16.6	106	17.1	115	20.2	124	22.5	127	22.7		
	21	71.8	11.8	85.8	14.2	99.5	17.2	106	17.7	115	20.9	123	23.0	126	23.2		
	23	71.8	12.1	85.8	15.2	99.5	18.4	106	18.9	115	22.4	122	24.1	125	24.3		
	25	71.8	12.9	85.8	16.2	99.5	19.7	106	20.3	115	24.0	120	25.1	123	25.4		
	27	71.8	13.8	85.8	17.2	99.5	21.0	106	21.6	115	25.6	118	26.2	121	26.4		
	29	71.8	14.6	85.8	18.4	99.5	22.4	106	23.1	113	26.7	116	27.1	119	27.5		
	31	71.8	15.5	85.8	19.6	99.5	23.9	106	24.6	111	27.8	115	28.3	118	28.6		
	33	71.8	16.5	85.8	20.8	99.5	25.4	106	26.2	110	28.8	113	29.4	116	29.7		
	35	71.8	17.5	85.8	22.1	99.5	27.1	106	27.9	108	29.9	111	30.4	114	30.8		
	37	71.8	18.6	85.8	23.5	99.5	28.8	103	28.								

RXQ40ANRYFK Cooling capacity for VRV indoor units only (VRT)

Capacity ratio (%)	Outdoor air temp.	Indoor air temp. (°CWB)													
		14		16		18		19		20		22		24	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
°CDB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
130%	10	98.2	14.8	117	17.9	136	21.0	141	20.1	143	20.6	147	19.9	152	18.8
	12	98.2	15.1	117	18.2	136	21.3	139	20.0	141	20.5	146	19.7	150	19.8
	14	98.2	15.3	117	18.5	136	21.7	137	19.9	140	20.4	144	20.7	148	20.9
	16	98.2	15.6	117	18.9	134	21.6	136	20.1	138	21.2	142	21.8	146	22.0
	18	98.2	15.9	117	19.2	132	22.4	134	21.1	136	22.3	140	22.9	144	23.2
	20	98.2	16.2	117	20.5	130	23.5	132	22.1	134	23.4	138	24.0	142	24.3
	21	98.2	16.6	117	21.2	129	24.0	131	22.6	133	23.9	137	24.6	142	24.9
	23	98.2	17.8	117	22.7	127	25.1	129	23.7	131	25.0	136	25.7	140	26.0
	25	98.2	19.0	117	24.3	126	26.2	127	24.7	129	26.1	134	26.9	138	27.2
	27	98.2	20.2	117	26.0	124	27.3	126	25.7	128	27.2	132	28.0	136	28.3
	29	98.2	21.6	117	27.7	122	28.4	124	26.8	126	28.3	130	29.1	134	29.5
	31	98.2	23.0	117	29.3	120	29.5	122	27.8	124	29.5	128	30.3	132	30.7
	33	98.2	24.5	115	30.4	118	30.7	120	28.9	122	30.6	126	31.4	131	31.8
	35	98.2	26.0	113	31.5	116	31.8	118	29.9	120	31.7	125	32.6	129	33.0
	37	98.2	27.7	111	32.6	115	32.9	116	31.0	119	32.8	123	33.8	127	34.2
	39	98.2	29.4	109	33.7	113	34.1	115	32.1	117	34.0	121	35.0	125	35.4
	41	98.2	31.8	108	35.4	110	35.8	112	33.6	115	35.7	119	36.8	123	37.3
	43	98.2	33.8	104	35.8	106	36.6	108	34.2	108	36.3	111	37.0	112	37.3
	46	95.1	35.4	97.0	36.3	98.2	36.8	98.8	34.7	101	37.4	104	38.4	107	38.8
	48	66.0	26.0	67.8	26.8	69.1	27.6	71.4	27.7	71.7	29.5	72.1	31.0	74.5	32.0
	50	57.5	24.1	57.8	24.2	58.1	24.3	58.5	22.8	58.7	24.0	59.0	24.5	59.2	24.7
120%	10	90.6	13.6	108	16.4	125	19.2	134	19.4	141	21.2	145	20.5	149	19.6
	12	90.6	13.8	108	16.7	125	19.5	134	19.8	139	21.0	143	20.4	147	19.6
	14	90.6	14.1	108	17.0	125	19.9	134	20.1	137	20.9	141	20.5	145	20.7
	16	90.6	14.3	108	17.3	125	20.3	133	20.3	135	21.1	139	21.6	143	21.9
	18	90.6	14.6	108	17.6	125	20.9	132	21.0	134	22.2	137	22.7	141	23.0
	20	90.6	14.9	108	18.3	125	22.5	130	22.0	132	23.2	136	23.8	140	24.1
	21	90.6	15.0	108	19.0	125	23.3	129	22.5	131	23.8	135	24.4	139	24.7
	23	90.6	16.0	108	20.3	125	24.9	127	23.5	129	24.9	133	25.5	137	25.8
	25	90.6	17.0	108	21.7	124	26.1	125	24.5	127	25.9	131	26.6	135	26.9
	27	90.6	18.2	108	23.2	122	27.2	123	25.6	125	27.0	129	27.8	133	28.1
	29	90.6	19.4	108	24.7	120	28.3	122	26.6	124	28.1	127	28.9	131	29.3
	31	90.6	20.6	108	26.3	118	29.4	120	27.7	122	29.3	126	30.1	130	30.4
	33	90.6	21.9	108	28.1	116	30.5	118	28.0	120	30.4	124	31.2	128	31.6
	35	90.6	23.3	108	29.9	114	31.6	116	29.8	118	31.5	122	32.4	126	32.7
	37	90.6	24.8	108	31.8	113	32.7	114	30.8	116	32.6	120	33.5	124	33.9
	39	90.6	26.3	108	33.5	111	33.8	113	31.9	114	33.7	118	34.7	122	35.1
	41	90.6	28.4	106	35.2	109	35.6	109	33.2	113	35.4	117	36.4	120	36.9
	43	90.6	30.2	103	35.6	105	36.5	105	34.1	107	36.1	111	36.9	112	37.1
	46	90.6	33.0	97.0	36.3	98.2	36.8	98.8	34.7	101	37.4	104	38.4	107	38.8
	48	65.9	25.9	67.6	26.7	69.1	27.6	71.4	27.6	71.6	29.5	72.1	30.9	74.3	31.9
	50	57.5	24.1	57.7	24.2	58.1	24.3	58.4	22.8	58.7	24.0	58.9	24.5	59.2	24.7
110%	10	83.3	12.4	99.3	14.9	115	17.5	123	17.7	133	20.1	142	21.2	146	20.3
	12	83.3	12.6	99.3	15.2	115	17.8	123	18.0	133	20.5	140	21.1	144	20.2
	14	83.3	12.8	99.3	15.5	115	18.1	123	18.3	133	20.9	139	20.9	142	20.6
	16	83.3	13.1	99.3	15.7	115	18.4	123	18.6	133	21.3	137	21.5	140	21.7
	18	83.3	13.3	99.3	16.0	115	18.8	123	19.1	131	22.0	135	22.6	138	22.8
	20	83.3	13.5	99.3	16.3	115	19.8	123	20.5	130	23.1	133	23.7	137	23.9
	21	83.3	13.7	99.3	16.8	115	20.5	123	21.3	129	23.6	132	24.2	136	24.5
	23	83.3	14.3	99.3	18.0	115	22.0	123	22.8	127	24.7	130	25.3	134	25.6
	25	83.3	15.2	99.3	19.2	115	23.5	123	24.4	125	25.8	129	26.4	132	26.7
	27	83.3	16.2	99.3	20.5	115	25.1	121	25.4	123	26.9	127	27.6	130	27.9
	29	83.3	17.3	99.3	21.9	115	26.8	120	26.4	121	28.0	125	28.7	128	29.0
	31	83.3	18.4	99.3	23.3	115	28.6	118	27.5	120	29.1	123	29.8	127	30.1
	33	83.3	19.5	99.3	24.8	115	30.3	116	28.5	118	30.1	121	31.0	125	31.3
	35	83.3	20.7	99.3	26.4	113	31.4	114	29.6	116	31.2	119	32.1	123	32.5
	37	83.3	22.0	99.3	28.1	111	32.5	112	30.6	114	32.3	118	33.2	121	33.6
	39	83.3	23.4	99.3	29.8	109	33.6	110	31.6	112	33.5	116	34.4	119	34.8
	41	83.3	25.2	99.3	32.3	107	35.3	107	33.0	110	35.2	114	36.1	117	36.6
	43	83.3	26.8	99.3	34.3	104	36.4	104	34.0	107	36.3	111	37.3	112	37.3
	46	83.3	29.3	96.6	36.2	98.2	36.8	98.8	34.7	101	37.4	104	38.4	107	38.8
	48	65.7	25.9	67.5	26.7	69.0	27.5	71.3	27.5	71.4	29.4	72.0	30.8	74.2	31.8
	50	57.5	24.0	57.7	24.1	58.0	24.2	58.4	22.7	58.5	23.9	58.8	24.5	59.0	24.6
100%	10	75.5	11.3	90.2	13.5	105	15.7	112	15.9	121	18.2	138	21.3	143	21.0
	12	75.5	11.5	90.2	13.8	105	16.0	112	16.2	121	18.5	138	21.7	141	20.9
	14	75.5	11.7	90.2	14.0	105	16.3	112	16.5	121	18.8	136	21.6	139	20.8
	16	75.5	11.9	90.2	14.2	105	16.6	112	16.8	121	19.1	134	21.5	137	21.5
	18	75.5	12.1	90.2	14.5	105	16.9	112	17.1	121	19.5	132	22.4	136	22.6
	20	75.5	12.3	90.2	14.8	105	17.4	112	17.9	121	21.0	130	23.5	134	23.7
	21	75.5	12.4	90.2	14.9	105	18.0	112	18.6	121	21.7	130	24.0	133	24.3
	23	75.5	12.7	90.2	15.9	105	19.2	112	19.9	121	23.2	128	25.2	131	25.4
	25	75.5	13.5	90.2	16.9	105	20.6	112	21.3	121	24.9	126	26.2	129	26.5
	27	75.5	14.4	90.2	18.0	105	21.9	112	22.7	121	26.6	124	27.3	127	27.6
	29	75.5	15.3	90.2	19.2	105	23.4	112	24.2	119	27.8	122	28.5	126	28.7
	31	75.5	16.3	90.2	20.5	105	25.0	112	25.8	117	28.9	120	29.6	124	29.9
	33	75.5	17.3	90.2	21.8	105	26.6	112	27.5	115	29.9	119	30.7	122	31.0
	35	75.5	18.3	90.2	23.1	105	28.3	112	29.3	114	31.0	117	31.8	120	32.2
	37	75.5	19.4	90.2	24.6	105	30.1	108	29.5	112	32.1	115	33.0	118	33.3

RXQ42ANRYFK Cooling capacity for VRV indoor units only (VRT)

Capacity ratio (%)	Outdoor air temp.	Indoor air temp. (°CWB)															
		14		16		18		19		20		22		24			
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI		
130%	°CDB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	
	10	104	15.6	124	18.9	144	22.1	149	21.3	151	22.0	156	21.0	160	19.8		
	12	104	15.9	124	19.3	144	22.5	147	21.2	150	21.8	154	20.9	158	20.9		
	14	104	16.2	124	19.6	143	22.9	145	21.1	148	21.7	152	21.9	156	22.1		
	16	104	16.5	124	20.0	142	22.8	143	21.2	146	22.6	150	23.0	155	23.3		
	18	104	16.8	124	20.3	140	23.6	142	22.3	144	23.8	148	24.2	153	24.5		
	20	104	17.1	124	21.6	138	24.8	140	23.4	142	24.9	146	25.4	151	25.6		
	21	104	17.6	124	22.4	137	25.4	139	24.0	141	25.5	145	26.0	150	26.3		
	23	104	18.8	124	24.0	135	26.5	137	25.0	139	26.7	143	27.2	148	27.5		
	25	104	20.0	124	25.7	133	27.7	135	26.1	137	27.8	141	28.4	146	28.7		
	27	104	21.4	124	27.4	131	28.8	133	27.3	135	29.0	140	29.6	144	29.9		
	29	104	22.8	124	29.3	129	30.0	131	28.4	133	30.2	138	30.8	142	31.1		
	31	104	24.3	123	30.9	127	31.2	129	29.5	131	31.4	136	32.0	140	32.4		
	33	104	25.8	121	32.1	125	32.4	127	30.6	129	32.6	134	33.3	138	33.6		
	35	104	27.5	120	33.3	123	33.6	125	31.7	127	33.8	132	34.5	136	34.9		
	37	104	29.3	118	34.4	121	34.7	123	32.8	125	35.0	130	35.7	134	36.1		
	39	104	31.1	116	35.6	119	35.9	121	34.0	124	36.2	128	37.0	132	37.4		
	41	104	33.3	114	37.1	116	37.4	118	35.2	122	37.7	126	38.5	130	39.0		
	43	104	35.4	107	36.7	111	38.2	111	35.8	115	38.3	118	39.0	121	39.3		
	46	98.6	36.1	101	37.3	103	38.1	104	36.2	107	39.5	110	40.2	113	40.5		
	48	61.2	26.2	62.5	27.0	63.3	27.8	64.8	27.2	65.1	29.3	65.5	30.4	66.8	31.3		
50	54.5	23.6	54.7	23.7	55.0	23.8	55.4	22.4	55.8	23.8	56.1	24.1	56.5	24.2			
120%	10	95.9	14.4	115	17.3	133	20.3	142	20.6	149	22.5	153	21.7	157	20.6		
	12	95.9	14.6	115	17.7	133	20.6	142	20.9	147	22.4	151	21.6	155	20.7		
	14	95.9	14.9	115	18.0	133	21.0	142	21.3	145	22.3	149	21.7	153	21.9		
	16	95.9	15.1	115	18.3	133	21.4	141	21.5	143	22.5	147	22.9	151	23.1		
	18	95.9	15.4	115	18.6	133	22.1	139	22.2	141	23.6	145	24.0	150	24.3		
	20	95.9	15.7	115	19.4	133	23.7	137	23.3	139	24.8	144	25.2	148	25.5		
	21	95.9	15.8	115	20.0	133	24.6	136	23.8	138	25.3	143	25.8	147	26.1		
	23	95.9	16.9	115	21.4	133	26.3	134	24.9	137	26.5	141	27.0	145	27.3		
	25	95.9	18.0	115	22.9	131	27.5	133	26.0	135	27.7	139	28.2	143	28.4		
	27	95.9	19.2	115	24.5	129	28.7	131	27.1	133	28.8	137	29.4	141	29.7		
	29	95.9	20.5	115	26.1	127	29.8	129	28.2	131	30.0	135	30.6	139	30.9		
	31	95.9	21.8	115	27.8	125	31.0	127	29.3	129	31.2	133	31.8	137	32.1		
	33	95.9	23.2	115	29.7	123	32.2	125	30.4	127	32.3	131	33.0	135	33.3		
	35	95.9	24.6	115	31.6	121	33.3	123	31.5	125	33.5	129	34.2	133	34.6		
	37	95.9	26.2	115	33.6	119	34.5	121	32.6	123	34.7	127	35.4	131	35.8		
	39	95.9	27.8	114	35.4	117	35.7	119	33.7	121	35.9	125	36.7	129	37.1		
	41	95.9	29.8	112	36.9	115	37.2	115	34.9	119	37.4	123	38.2	127	38.6		
	43	95.9	31.6	107	36.6	110	38.2	111	35.7	114	38.3	118	38.9	121	39.2		
	46	95.8	34.5	101	37.3	103	38.1	104	36.2	107	39.5	110	40.2	113	40.5		
	48	61.1	26.1	62.3	26.9	63.2	27.7	64.7	27.1	65.1	29.1	65.5	30.3	66.7	31.2		
	50	54.4	23.6	54.6	23.7	54.9	23.8	55.3	22.4	55.7	23.8	56.0	24.1	56.3	24.2		
110%	10	88.0	13.2	105	15.8	122	18.5	130	18.7	140	21.5	150	22.4	154	21.4		
	12	88.0	13.4	105	16.1	122	18.8	130	19.0	140	21.9	149	22.2	152	21.3		
	14	88.0	13.6	105	16.4	122	19.1	130	19.4	140	22.2	147	22.5	150	21.7		
	16	88.0	13.8	105	16.6	122	19.5	130	19.7	140	22.7	145	22.7	148	22.9		
	18	88.0	14.1	105	17.0	122	19.8	130	20.3	139	23.5	143	23.9	146	24.1		
	20	88.0	14.3	105	17.3	122	21.0	130	21.8	137	24.6	141	25.0	145	25.2		
	21	88.0	14.5	105	17.8	122	21.7	130	22.5	136	25.2	140	25.6	144	25.8		
	23	88.0	15.1	105	19.0	122	23.2	130	24.1	134	26.3	138	26.8	142	27.0		
	25	88.0	16.1	105	20.3	122	24.8	130	25.8	132	27.5	136	28.0	140	28.2		
	27	88.0	17.2	105	21.7	122	26.5	128	26.9	130	28.6	134	29.2	138	29.4		
	29	88.0	18.3	105	23.1	122	28.3	126	28.0	128	29.8	132	30.3	136	30.6		
	31	88.0	19.4	105	24.6	122	30.2	125	29.1	126	31.0	130	31.5	134	31.8		
	33	88.0	20.6	105	26.2	121	32.0	123	30.2	125	32.1	128	32.7	132	33.0		
	35	88.0	21.9	105	27.9	119	33.1	121	31.3	123	33.3	126	33.9	130	34.3		
	37	88.0	23.3	105	29.7	117	34.3	119	32.4	121	34.5	124	35.1	128	35.5		
	39	88.0	24.7	105	31.6	115	35.5	117	33.5	119	35.7	123	36.4	126	36.7		
	41	88.0	26.4	105	33.8	113	37.0	113	34.7	117	37.1	121	37.9	124	38.3		
	43	88.0	28.0	105	35.9	110	38.1	110	35.7	114	38.4	118	39.1	121	39.5		
	46	88.0	30.6	101	37.2	103	38.1	104	36.2	107	39.5	110	40.2	113	40.5		
	48	60.9	26.0	62.1	26.8	63.1	27.6	64.6	27.0	65.0	29.0	65.3	30.2	66.5	31.1		
	50	54.4	23.6	54.5	23.7	54.7	23.8	55.3	22.4	55.6	23.7	55.9	24.1	56.1	24.2		
100%	10	79.9	12.0	95.5	14.3	111	16.6	118	16.9	128	19.4	146	22.6	151	22.2		
	12	79.9	12.2	95.5	14.6	111	16.9	118	17.2	128	19.7	146	22.9	149	22.1		
	14	79.9	12.4	95.5	14.8	111	17.2	118	17.5	128	20.0	144	22.8	147	21.9		
	16	79.9	12.6	95.5	15.1	111	17.5	118	17.8	128	20.4	142	22.7	145	22.7		
	18	79.9	12.8	95.5	15.3	111	17.9	118	18.1	128	20.8	140	23.7	143	23.9		
	20	79.9	13.0	95.5	15.6	111	18.4	118	19.0	128	22.3	138	24.9	141	25.0		
	21	79.9	13.1	95.5	15.8	111	19.0	118	19.7	128	23.1	137	25.4	141	25.6		
	23	79.9	13.4	95.5	16.8	111	20.3	118	21.1	128	24.8	135	26.6	139	26.8		
	25	79.9	14.3	95.5	17.9	111	21.7	118	22.5	128	26.5	133	27.8	137	28.0		
	27	79.9	15.2	95.5	19.1	111	23.2	118	24.0	128	28.3	131	28.9	135	29.2		
	29	79.9	16.2	95.5	20.3	111	24.7	118	25.7	126	29.6	129	30.1	133	30.3		
	31	79.9	17.2	95.5	21.6	111	26.4	118	27.4	124	30.7	127	31.3	131	31.5		
	33	79.9	18.3	95.5	23.0	111	28.1	1188									

RXQ44ANRYFK Cooling capacity for VRV indoor units only (VRT)

Capacity ratio (%)	Outdoor air temp.	Indoor air temp. (°CWB)															
		14		16		18		19		20		22		24			
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI		
	°CDB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW		
130%	10	108	16.5	129	19.9	150	23.3	156	22.4	158	23.2	162	22.1	167	20.9		
	12	108	16.8	129	20.3	150	23.8	154	22.3	156	23.0	160	22.0	165	22.0		
	14	108	17.0	129	20.6	149	24.1	152	22.2	154	22.9	158	23.0	163	23.3		
	16	108	17.3	129	21.0	147	24.0	150	22.4	152	23.8	156	24.3	161	24.5		
	18	108	17.7	129	21.4	145	24.9	147	23.6	150	25.0	154	25.5	159	25.8		
	20	108	18.0	129	22.8	143	26.1	145	24.7	148	26.3	152	26.7	157	27.1		
	21	108	18.5	129	23.6	142	26.7	144	25.3	147	26.9	151	27.4	156	27.7		
	23	108	19.8	129	25.3	140	28.0	142	26.4	145	28.1	149	28.6	154	29.0		
	25	108	21.1	129	27.0	138	29.2	140	27.6	143	29.3	147	29.9	152	30.3		
	27	108	22.5	129	28.9	136	30.4	138	28.7	141	30.6	145	31.2	150	31.5		
	29	108	24.0	129	30.8	134	31.7	136	29.9	139	31.8	143	32.4	148	32.9		
	31	108	25.6	129	32.6	132	32.9	134	31.1	137	33.1	141	33.7	146	34.2		
	33	108	27.2	127	33.8	130	34.1	132	32.3	135	34.3	139	35.0	144	35.5		
	35	108	28.9	125	35.0	128	35.4	130	33.5	133	35.6	137	36.3	142	36.8		
	37	108	30.8	123	36.2	126	36.6	128	34.6	131	36.9	135	37.6	140	38.1		
	39	108	32.7	121	37.5	124	37.9	126	35.9	129	38.1	133	38.9	138	39.5		
	41	108	35.0	119	39.0	121	39.5	123	37.1	127	39.7	131	40.6	136	41.1		
	43	108	37.3	112	38.5	115	40.3	116	37.7	120	40.4	123	41.0	126	41.4		
	46	102	37.5	104	38.7	106	39.6	107	37.7	111	41.5	114	42.3	117	42.7		
	48	64.2	27.5	66.1	28.4	67.1	29.3	69.2	28.6	69.4	30.7	69.6	31.9	70.9	32.9		
	50	56.3	24.7	56.5	24.8	56.8	24.9	57.6	23.5	57.9	24.9	58.0	25.2	58.2	25.3		
120%	10	99.9	15.1	119	18.3	138	21.4	148	21.7	155	23.8	160	22.9	164	21.8		
	12	99.9	15.4	119	18.6	138	21.8	148	22.1	153	23.6	158	22.7	162	21.8		
	14	99.9	15.7	119	18.9	138	22.2	148	22.5	151	23.5	156	22.8	160	23.1		
	16	99.9	15.9	119	19.3	138	22.6	147	22.7	149	23.7	154	24.1	158	24.3		
	18	99.9	16.2	119	19.6	138	23.3	145	23.4	147	24.9	152	25.3	156	25.6		
	20	99.9	16.5	119	20.4	138	25.0	143	24.5	145	26.1	150	26.5	154	26.9		
	21	99.9	16.7	119	21.1	138	25.9	142	25.1	144	26.7	149	27.2	153	27.5		
	23	99.9	17.8	119	22.6	138	27.7	140	26.3	142	27.9	147	28.4	151	28.7		
	25	99.9	19.0	119	24.1	136	29.0	138	27.4	140	29.1	145	29.7	149	30.0		
	27	99.9	20.2	119	25.8	134	30.2	136	28.6	138	30.4	143	30.9	147	31.3		
	29	99.9	21.5	119	27.5	132	31.5	134	29.7	136	31.6	141	32.2	145	32.6		
	31	99.9	22.9	119	29.3	130	32.7	132	30.9	134	32.9	139	33.5	143	33.9		
	33	99.9	24.4	119	31.2	128	33.9	130	32.1	132	34.1	137	34.7	141	35.1		
	35	99.9	25.9	119	33.2	126	35.2	128	33.2	130	35.3	135	36.0	139	36.5		
	37	99.9	27.6	119	35.4	124	36.4	126	34.4	128	36.6	133	37.3	137	37.8		
	39	99.9	29.3	119	37.3	122	37.7	124	35.6	126	37.9	131	38.6	135	39.1		
	41	99.9	31.3	117	38.8	120	39.2	120	36.8	124	39.4	129	40.2	133	40.7		
	43	99.9	33.3	111	38.5	115	40.2	115	37.7	119	40.3	123	41.0	126	41.4		
	46	99.8	36.3	104	38.7	106	39.6	107	37.7	111	41.5	114	42.3	117	42.7		
	48	64.1	27.4	65.8	28.3	67.0	29.2	69.1	28.5	69.4	30.6	69.6	31.8	70.8	32.8		
	50	56.2	24.7	56.4	24.8	56.8	24.9	57.4	23.5	57.7	24.8	58.0	25.2	58.2	25.3		
110%	10	91.7	13.8	109	16.6	127	19.5	136	19.7	146	22.6	157	23.6	161	22.6		
	12	91.7	14.1	109	16.9	127	19.8	136	20.1	146	23.0	155	23.4	159	22.4		
	14	91.7	14.3	109	17.2	127	20.2	136	20.4	146	23.4	153	23.3	157	22.9		
	16	91.7	14.6	109	17.5	127	20.5	136	20.8	146	23.9	151	23.9	155	24.2		
	18	91.7	14.8	109	17.9	127	20.9	136	21.4	145	24.7	149	25.1	153	25.4		
	20	91.7	15.1	109	18.2	127	22.1	136	23.0	143	25.9	147	26.4	151	26.6		
	21	91.7	15.2	109	18.7	127	22.9	136	23.8	142	26.5	146	27.0	150	27.3		
	23	91.7	15.9	109	20.0	127	24.5	136	25.5	140	27.7	144	28.2	148	28.5		
	25	91.7	17.0	109	21.4	127	26.2	136	27.2	138	28.9	142	29.4	146	29.8		
	27	91.7	18.1	109	22.8	127	28.0	134	28.4	136	30.2	140	30.7	144	31.0		
	29	91.7	19.2	109	24.4	127	29.9	132	29.5	134	31.4	138	31.9	142	32.3		
	31	91.7	20.5	109	25.9	127	31.9	130	30.7	132	32.6	136	33.2	140	33.6		
	33	91.7	21.7	109	27.6	126	33.7	128	31.8	130	33.9	134	34.5	138	34.8		
	35	91.7	23.1	109	29.4	124	34.9	126	33.0	128	35.1	132	35.3	136	36.1		
	37	91.7	24.5	109	31.2	122	36.2	124	34.2	126	36.3	130	37.0	134	37.4		
	39	91.7	26.0	109	33.2	120	37.4	122	35.4	124	37.6	128	38.3	132	38.7		
	41	91.7	27.8	109	35.6	118	39.0	118	36.6	122	39.1	126	39.9	130	40.3		
	43	91.7	29.5	109	37.8	114	40.2	115	37.6	119	40.4	123	41.2	126	41.7		
	46	91.7	32.2	104	38.6	106	39.6	107	37.7	111	41.5	114	42.3	117	42.7		
	48	63.6	27.3	65.5	28.2	66.9	29.0	69.0	28.4	69.1	30.5	69.4	31.7	70.6	32.7		
	50	56.2	24.6	56.3	24.8	56.7	24.9	57.4	23.4	57.5	24.8	57.8	25.1	58.0	25.3		
100%	10	83.3	12.6	99.5	15.1	115	17.5	123	17.8	133	20.4	152	23.8	158	23.4		
	12	83.3	12.8	99.5	15.3	115	17.9	123	18.1	133	20.7	152	24.1	156	23.3		
	14	83.3	13.0	99.5	15.6	115	18.2	123	18.4	133	21.1	150	24.0	153	23.1		
	16	83.3	13.2	99.5	15.9	115	18.5	123	18.8	133	21.5	148	23.9	151	24.0		
	18	83.3	13.5	99.5	16.1	115	18.9	123	19.1	133	21.9	146	25.0	149	25.2		
	20	83.3	13.7	99.5	16.4	115	19.4	123	20.1	133	23.5	144	26.2	147	26.4		
	21	83.3	13.8	99.5	16.6	115	20.0	123	20.8	133	24.4	143	26.8	146	27.0		
	23	83.3	14.1	99.5	17.7	115	21.5	123	22.2	133	26.1	141	28.0	144	28.3		
	25	83.3	15.1	99.5	18.9	115	22.9	123	23.8	133	27.9	139	29.2	142	29.5		
	27	83.3	16.0	99.5	20.1	115	24.5	123	25.4	133	29.8	137	30.5	140	30.8		
	29	83.3	17.1	99.5	21.4	115	26.1	123	27.1	131	31.2	135	31.7	138	32.0		
	31	83.3	18.1	99.5	22.8	115	27.8	123	28.9	129	32.4	133	32.9	136	33.3		
	33	83.3	19.2	99.5	24.2	115	29.6	123	30.8	127	33.6	131	34.2	134	34.5		
	35	83.3	20.4	99.5	25.8	115	31.5	123	32.8	125	34.8	129	35.4	132	35.8		
	37	83.3	21.7	99.5	27.4	115	33.5	119	32.7	123	36.1	127	36.7	130	37.1		
	39	83.3	22.9	99.5	29.1	110	35.7	114	32.6	121	37.3	125	38.0	128	38.4		
	41	83.3	24.5	99.5	31.1	109	36.8	112	32.5	118	38.7	122	39.0	124	39.4		
	43	83.3	26.0	99.5	33.0	101	36.5	104	32.4	115	39.8	116	40.2	118	40.6		
	46	83.3	28.3	94.7	30.7	96.2	32.0	98.3	32.3	106	35.4	112	38.0	115	37.3		
	48	63.5	27.3	65.4	28.2	66.7	29.1	66.6	29.6	68.7	30.5	69.1	31.7	70.3	31.4		
	50	56.1	24.6	56.2	24.7	56.3	24.8	56.5	24.8	56.7	24.8	56.7	25.1	57.0	25.2		
90%	10	75.0	11.4	89.6	13.5	104	15.7	111	15.9	120	18.2	137	21.2	154	24.1		
	12	75.0	11.6	89.6	13.8	104	16.0	111	16.2	120	18.5	137	21.5	152	24.1		
	14	75.0	11.7	89.6	14.0	104	16.3	111	16.5	120	18.8	137	21.9	150	24.0		
	16	75.0	11.9	89.6	14.2	104	16.5	111	16.8	1							

RXQ46ANRYFK Cooling capacity for VRV indoor units only (VRT)

Capacity ratio (%)	Outdoor air temp.	Indoor air temp. (°CWB)													
		14		16		18		19		20		22		24	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		°CDB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
130%	10	114	17.3	136	20.9	158	24.5	164	23.6	166	24.5	171	23.3	176	22.0
	12	114	17.6	136	21.3	158	25.0	162	23.5	164	24.4	169	23.1	174	23.1
	14	114	17.9	136	21.7	157	25.4	159	23.4	162	24.2	167	24.2	172	24.4
	16	114	18.2	136	22.1	155	25.2	157	23.6	160	25.2	165	25.5	170	25.8
	18	114	18.6	136	22.5	153	26.2	155	24.8	158	26.5	163	26.8	167	27.1
	20	114	18.9	136	24.0	151	27.4	153	26.0	156	27.8	160	28.1	165	28.4
	21	114	19.4	136	24.8	150	28.1	152	26.6	155	28.4	159	28.8	164	29.1
	23	114	20.8	136	26.6	148	29.4	150	27.8	152	29.7	157	30.1	162	30.4
	25	114	22.2	136	28.4	146	30.6	148	29.0	150	31.1	155	31.4	160	31.8
	27	114	23.7	136	30.3	144	31.9	146	30.3	148	32.4	153	32.8	158	33.1
	29	114	25.2	136	32.4	142	33.2	144	31.5	146	33.7	151	34.1	156	34.5
	31	114	26.9	135	34.2	139	34.5	142	32.7	144	35.0	149	35.5	154	35.9
	33	114	28.6	133	35.5	137	35.8	139	34.0	142	36.3	147	36.8	152	37.2
	35	114	30.4	131	36.8	135	37.1	137	35.2	140	37.7	145	38.2	149	38.6
	37	114	32.3	129	38.1	133	38.5	135	36.5	138	39.0	142	39.6	147	40.0
	39	114	34.4	127	39.4	131	39.8	133	37.7	135	40.4	140	40.9	145	41.4
	41	114	36.5	125	40.7	126	41.1	128	38.7	133	41.7	138	42.4	143	42.9
	43	114	38.8	115	39.4	120	41.9	121	39.3	126	42.5	130	43.0	134	43.4
	46	106	38.2	108	39.6	111	40.9	112	39.2	117	43.6	120	44.1	123	44.5
	48	59.4	27.7	60.8	28.7	61.3	29.5	62.6	28.2	62.9	30.5	63.0	31.4	63.1	32.3
	50	53.2	24.2	53.4	24.4	53.7	24.5	54.5	23.1	55.0	24.6	55.2	24.8	55.3	24.9
120%	10	105	15.9	126	19.2	145	22.5	156	22.9	164	25.1	168	24.9	173	22.9
	12	105	16.2	126	19.6	145	22.9	156	23.3	161	25.0	166	23.9	170	22.9
	14	105	16.5	126	19.9	145	23.3	156	23.7	159	24.9	164	24.0	168	24.2
	16	105	16.8	126	20.3	145	23.7	155	23.8	157	25.0	162	25.3	166	25.6
	18	105	17.1	126	20.6	145	24.5	153	24.6	155	26.3	160	26.6	164	26.9
	20	105	17.4	126	21.4	145	26.3	151	25.8	153	27.6	157	27.9	162	28.2
	21	105	17.5	126	22.2	145	27.2	150	26.4	152	28.2	156	28.6	161	28.9
	23	105	18.7	126	23.7	145	29.1	148	27.7	150	29.6	154	29.9	159	30.2
	25	105	19.9	126	25.4	143	30.5	145	28.9	148	30.8	152	31.2	157	31.5
	27	105	21.3	126	27.1	141	31.8	143	30.1	146	32.1	150	32.5	155	32.9
	29	105	22.7	126	28.9	139	33.0	141	31.3	143	33.4	148	33.9	152	34.2
	31	105	24.1	126	30.8	137	34.3	139	32.5	141	34.8	146	35.2	150	35.6
	33	105	25.6	126	32.8	135	35.5	137	33.8	139	36.1	144	36.5	148	36.9
	35	105	27.2	126	34.9	133	36.9	135	35.0	137	37.4	142	37.9	146	38.3
	37	105	28.9	126	37.2	131	38.2	133	36.2	135	38.7	140	39.2	144	39.7
	39	105	30.7	125	39.2	129	39.5	131	37.5	133	40.1	137	40.6	142	41.1
	41	105	32.7	123	40.5	126	40.9	126	38.5	131	41.4	135	42.0	140	42.5
	43	105	34.7	115	39.4	120	41.9	121	39.3	126	42.5	130	43.0	134	43.4
	46	105	37.9	108	39.6	111	40.9	112	39.2	117	43.6	120	44.1	123	44.5
	48	59.3	27.6	60.5	28.5	61.1	29.3	62.5	28.1	62.9	30.3	63.0	31.2	63.1	32.1
	50	53.2	24.2	53.2	24.3	53.6	24.5	54.3	23.1	54.8	24.6	55.1	24.8	55.3	24.8
110%	10	96.4	14.6	115	17.5	133	20.4	143	20.8	154	24.0	165	24.8	169	23.7
	12	96.4	14.8	115	17.8	133	20.8	143	21.2	154	24.4	163	24.7	167	23.6
	14	96.4	15.1	115	18.1	133	21.2	143	21.5	154	24.8	161	24.5	165	24.1
	16	96.4	15.3	115	18.4	133	21.6	143	21.9	154	25.3	159	25.2	163	25.4
	18	96.4	15.6	115	18.8	133	22.0	143	22.5	152	26.2	157	26.4	161	26.7
	20	96.4	15.9	115	19.1	133	23.2	143	24.2	150	27.4	154	27.7	159	28.0
	21	96.4	16.0	115	19.7	133	24.0	143	25.0	149	28.1	153	28.4	158	28.6
	23	96.4	16.7	115	21.1	133	25.7	143	26.8	147	29.4	151	29.7	155	29.9
	25	96.4	17.9	115	22.5	133	27.5	143	28.7	145	30.6	149	31.0	153	31.2
	27	96.4	19.0	115	24.0	133	29.4	141	29.9	143	31.9	147	32.3	151	32.6
	29	96.4	20.2	115	25.6	133	31.4	139	31.1	141	33.2	145	33.6	149	33.9
	31	96.4	21.5	115	27.3	133	33.5	137	32.3	139	34.5	143	34.9	147	35.2
	33	96.4	22.9	115	29.0	133	35.4	135	33.5	137	35.8	141	36.3	145	36.6
	35	96.4	24.3	115	30.9	131	36.7	132	34.7	134	37.1	139	37.6	143	37.9
	37	96.4	25.7	115	32.8	129	38.0	130	36.0	132	38.5	137	38.9	141	39.3
	39	96.4	27.3	115	34.9	126	39.3	128	37.2	130	39.8	134	40.3	138	40.7
	41	96.4	29.0	115	37.1	124	40.6	124	38.2	128	41.1	132	41.6	136	42.0
	43	96.4	30.8	115	39.4	120	41.9	121	39.3	126	42.5	130	43.0	134	43.4
	46	96.4	33.6	108	39.6	111	40.9	112	39.2	117	43.6	120	44.1	123	44.5
	48	58.8	27.4	60.1	28.3	61.0	29.2	62.3	27.9	62.7	30.1	62.8	31.0	62.9	32.0
	50	53.1	24.2	53.2	24.3	53.4	24.4	54.3	23.1	54.6	24.6	54.9	24.7	55.1	24.8
100%	10	87.7	13.3	105	15.9	121	18.4	130	18.8	140	21.6	160	25.0	166	24.6
	12	87.7	13.5	105	16.1	121	18.8	130	19.1	140	22.0	160	25.4	164	24.4
	14	87.7	13.7	105	16.4	121	19.1	130	19.4	140	22.4	158	25.3	162	24.3
	16	87.7	13.9	105	16.7	121	19.5	130	19.8	140	22.8	156	25.2	159	25.2
	18	87.7	14.2	105	17.0	121	19.8	130	20.1	140	23.2	154	26.2	157	26.4
	20	87.7	14.4	105	17.3	121	20.4	130	21.1	140	24.9	151	27.5	155	27.7
	21	87.7	14.5	105	17.5	121	21.1	130	21.9	140	25.8	150	28.2	154	28.4
	23	87.7	14.9	105	18.6	121	22.5	130	23.4	140	27.6	148	29.5	152	29.7
	25	87.7	15.9	105	19.9	121	24.1	130	25.0	140	29.6	146	30.8	150	31.0
	27	87.7	16.9	105	21.1	121	25.7	130	26.7	140	31.6	144	32.0	148	32.3
	29	87.7	18.0	105	22.5	121	27.4	130	28.5	138	33.0	142	33.4	146	33.6
	31	87.7	19.1	105	24.0	121	29.2	130	30.4	136	34.3	140	34.7	144	34.9
	33	87.7	20.2	105	25.5	121	31.1	130	32.4	134	35.6	138	36.0	141	36.3
	35	87.7	21.5	105	27.1	121	33.1	130	34.5	132	36.9	136	37.3	139	37.6
	37	87.7	22.8	105	28.8	121	35.2	125	34.5	130	38.2	134	38.6	137	38.9
	39	87.7	24.1	105	30										

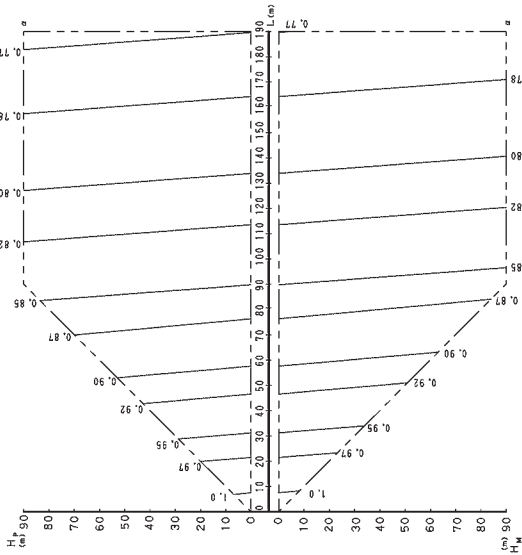
RXQ48ANRYFK Cooling capacity for VRV indoor units only (VRT)

Capacity ratio (%)	Outdoor air temp. °CDB	Indoor air temp. (°CWB)																							
		14		16		18		19		20		22		24											
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI										
130%	10	118	18.1	141	21.9	164	25.7	170	24.8	173	25.7	178	24.4	183	23.1										
	12	118	18.4	141	22.3	164	26.2	168	24.7	170	25.5	175	24.2	180	24.3										
	14	118	18.8	141	22.7	163	26.6	166	24.6	168	25.4	173	25.4	178	25.6										
	16	118	19.1	141	23.2	161	26.5	163	24.8	166	26.4	171	26.7	176	27.0										
	18	118	19.4	141	23.6	159	27.5	161	26.0	164	27.8	169	28.1	174	28.4										
	20	118	19.8	141	25.1	157	28.8	159	27.3	162	29.1	167	29.5	172	29.8										
	21	118	20.3	141	26.0	156	29.5	158	27.9	160	29.8	166	30.2	171	30.5										
	23	118	21.8	141	27.8	154	30.8	156	29.2	158	31.2	163	31.6	168	31.9										
	25	118	23.2	141	29.8	151	32.2	154	30.5	156	32.6	161	32.9	166	33.3										
	27	118	24.8	141	31.8	149	33.5	151	31.8	154	33.9	159	34.3	164	34.8										
	29	118	26.4	141	33.9	147	34.9	149	33.1	152	35.3	157	35.8	162	36.2										
	31	118	28.1	141	35.8	145	36.2	147	34.4	149	36.7	155	37.2	160	37.6										
	33	118	29.9	138	37.2	143	37.6	145	35.7	147	38.1	152	38.6	157	39.1										
	35	118	31.8	136	38.5	140	39.0	143	37.0	145	39.5	150	40.0	155	40.5										
	37	118	33.9	134	39.9	138	40.4	140	38.3	143	40.9	148	41.4	153	42.0										
	39	118	36.0	132	41.3	136	41.8	138	39.6	141	42.3	146	42.9	151	43.5										
	41	118	38.3	130	42.7	131	43.2	133	40.6	139	43.8	144	44.4	149	45.0										
	43	118	40.7	120	41.3	125	44.0	125	41.2	131	44.5	135	45.0	139	45.6										
	46	109	39.6	112	41.0	114	42.5	116	40.7	121	45.7	124	46.2	128	46.6										
	48	62.4	29.0	64.4	30.0	65.1	31.0	67.1	29.6	67.2	32.0	67.2	32.9	67.2	33.9										
	50	55.0	25.3	55.1	25.4	55.5	25.6	56.6	24.2	57.0	25.7	57.1	25.8	57.3	26.0										
120%	10	109	16.7	131	20.1	151	23.6	162	24.0	170	26.4	175	25.2	179	24.0										
	12	109	17.0	131	20.5	151	24.0	162	24.4	168	26.2	172	25.0	177	24.1										
	14	109	17.3	131	20.9	151	24.4	162	24.8	165	26.1	170	25.2	175	25.4										
	16	109	17.6	131	21.2	151	24.9	161	25.0	163	26.3	168	26.5	173	26.8										
	18	109	17.9	131	21.6	151	25.7	159	25.9	161	27.6	166	27.9	170	28.2										
	20	109	18.2	131	22.5	151	27.6	157	27.1	159	28.9	164	29.3	168	29.6										
	21	109	18.4	131	23.2	151	28.5	155	27.8	158	29.6	162	29.9	167	30.3										
	23	109	19.6	131	24.9	151	30.6	153	29.0	156	31.0	160	31.3	165	31.7										
	25	109	20.9	131	26.6	149	32.0	151	30.3	153	32.3	158	32.7	163	33.1										
	27	109	22.3	131	28.4	147	33.3	149	31.6	151	33.7	156	34.1	161	34.5										
	29	109	23.7	131	30.3	145	34.7	147	32.9	149	35.1	154	35.5	158	35.9										
	31	109	25.2	131	32.3	142	36.0	144	34.1	147	36.4	151	36.9	156	37.3										
	33	109	26.9	131	34.4	140	37.4	142	35.4	145	37.8	149	38.3	154	38.7										
	35	109	28.5	131	36.6	138	38.7	140	36.7	142	39.2	147	39.7	152	40.2										
	37	109	30.3	131	39.0	136	40.1	138	38.0	140	40.6	145	41.1	150	41.6										
	39	109	32.2	130	41.0	134	41.5	136	39.4	138	42.0	143	42.6	147	43.1										
	41	109	34.2	128	42.4	131	42.9	131	40.4	136	43.4	140	44.0	145	44.6										
	43	109	36.3	120	41.3	125	44.0	125	41.2	131	44.5	135	45.0	139	45.6										
	46	109	39.6	112	41.0	114	42.5	116	40.7	121	45.7	124	46.2	128	46.6										
	48	62.2	28.9	64.0	29.8	65.0	30.8	66.9	29.5	67.1	31.7	67.2	32.7	67.2	33.7										
	50	54.9	25.3	55.0	25.4	55.5	25.6	56.4	24.2	56.8	25.7	57.0	25.8	57.2	25.9										
110%	10	100	15.3	120	18.4	138	21.5	148	21.8	160	25.1	171	26.0	176	24.9										
	12	100	15.5	120	18.7	138	21.8	148	22.2	160	25.6	169	25.8	173	24.7										
	14	100	15.8	120	19.0	138	22.2	148	22.6	160	26.0	167	25.7	171	25.3										
	16	100	16.1	120	19.3	138	22.6	148	23.0	160	26.5	165	26.4	169	26.6										
	18	100	16.3	120	19.7	138	23.0	148	23.6	158	27.4	163	27.7	167	28.0										
	20	100	16.6	120	20.0	138	24.4	148	25.4	156	28.8	160	29.1	165	29.3										
	21	100	16.8	120	20.7	138	25.2	148	26.3	155	29.4	159	29.7	164	30.0										
	23	100	17.5	120	22.1	138	27.0	148	28.1	153	30.8	157	31.1	161	31.4										
	25	100	18.7	120	23.6	138	28.9	148	30.1	151	32.1	155	32.4	159	32.8										
	27	100	19.9	120	25.2	138	30.9	146	31.4	148	33.5	153	33.8	157	34.2										
	29	100	21.2	120	26.8	138	32.9	144	32.6	146	34.8	151	35.2	155	35.6										
	31	100	22.5	120	28.6	138	35.1	142	33.9	144	36.2	148	36.6	153	37.0										
	33	100	23.9	120	30.4	138	37.2	140	35.2	142	37.6	146	38.0	150	38.4										
	35	100	25.4	120	32.4	136	38.5	138	36.5	140	38.9	144	39.4	148	39.8										
	37	100	27.0	120	34.4	133	39.8	135	37.8	137	40.3	142	40.8	146	41.3										
	39	100	28.6	120	36.6	131	41.2	133	39.1	135	41.7	140	42.2	144	42.7										
	41	100	30.4	120	38.9	129	42.6	129	40.1	133	43.1	137	43.6	142	44.1										
	43	100	32.2	120	41.3	125	44.0	125	41.2	131	44.5	135	45.0	139	45.6										
	46	100	35.2	112	41.0	114	42.5	116	40.7	121	45.7	124	46.2	128	46.6										
	48	61.5	28.7	63.5	29.7	64.8	30.6	66.7	29.3	66.9	31.6	66.9	32.5	66.9	33.5										
	50	54.9	25.2	55.0	25.4	55.4	25.5	56.4	24.1	56.5	25.7	56.8	25.8	57.0	25.9										
100%	10	91.1	13.9	109	16.6	126	19.4	133	19.7	145	22.6	166	26.2	172	25.8										
	12	91.1	14.1	109	16.9	126	19.7	135	20.0	145	23.0	166	26.6	170	25.6										
	14	91.1	14.3	109	17.2	126	20.0	135	20.4	145	23.4	164	26.5	168	25.5										
	16	91.1	14.6	109	17.5	126	20.4	135	20.8	145	23.9	162	26.4	166	26.4										
	18	91.1	14.8	109	17.8	126	20.8	135	21.1	145	24.3	160	27.5	163	27.8										
	20	91.1	15.1	109	18.1	126	21.4	135	22.2	145	26.1	157	28.8	161	29.1										
	21	91.1	15.2	109	18.3	126	22.1	135	23.0	145	27.1	156	29.5	160	29.8										
	23	91.1	15.6	109	19.5	126	23.7	135	24.6	145	29.0	154	30.9	158	31.1										
	25	91.1	16.6	109	20.8	126	25.3	135	26.3	145	31.0	152	32.2	156	32.5										
	27	91.1	17.7	109	22.2	126	27.0	135	28.0	145	33.1	150	33.6	154	33.9										
	29	91.1	18.8	109	23.6	126	28.8	135	29.9	144	34.6	147	34.9	151	35.3										
	31	91.1	20.0	109	25.1	126	30.7	135	31.9	141	35.9	145	36.3	149	36.7										
	33	91.1	21.2	109	26.7	126	32.6	135	34.0	139	37.3	143	37.7	147	38.1										
	35	91.1	22.5	109	28.4	126	34.7	135	36.2	137	38.6	141	39.1	145	39.5										
	37	91.1	23.9	109	30.2	126	37.0	129	35.8	135	40.4														

9.2 Capacity Correction Factor

RXQ6ARYFK / RXQ8ARYFK

1. Rate of change in cooling capacity



[Explanation of symbols]
HP : Level difference between indoor and outdoor units where indoor unit is inferior position
HM : Level difference between indoor and outdoor units where indoor unit is superior position
L : Equivalent pipe length(m)
α : Rate of change in cooling capacity

[Diameter of the main pipes(standard size)]

Model	gas	liquid
RXQ6.8ARYFK	φ 19.1	φ 9.5

[Temper grade and Thickness]

Temper grade	0 Type	1/2H Type
Outer diameter	φ 9.5	φ 12.7
Minimum Wall Thickness	0.80	0.80

[Notes]

- These figures illustrate the rate of change in capacity of a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions there is only a minor deviation from the rate of change in capacity shown in the above figures.
- With this outdoor unit, evaporating pressure constant control when cooling is carried out.
- Method of calculating A/C capacity:
The maximum A/C capacity of the system will be either the total A/C capacity of the indoor units obtained from capacity characteristic table or the maximum A/C capacity of outdoor units as mentioned below, whichever smaller.
Calculating A/C capacity of outdoor units
• Condition: Indoor unit combination ratio does not exceed 100%.
Maximum A/C capacity of outdoor units = A/C capacity of outdoor units obtained from capacity characteristic table at the 100% combination
• Condition: Indoor unit combination ratio exceeds 100%.
Maximum A/C capacity of outdoor units = A/C capacity of outdoor units obtained from capacity characteristic table at the combination
• Condition: Indoor unit combination ratio exceeds 100%.
Maximum A/C capacity of outdoor units = A/C capacity of outdoor units obtained from capacity characteristic table at the combination
X (Capacity change rate due to piping length to the farthest indoor unit)
X (Capacity change rate due to piping length to the farthest indoor unit)
When overall equivalent pipe length is 90m or more, the diameter of the main gas and liquid pipes (outdoor unit-branch sections) must be increased.
When level difference is 50m or more, the diameter of the main liquid pipe (outdoor unit-branch sections) must be increased.

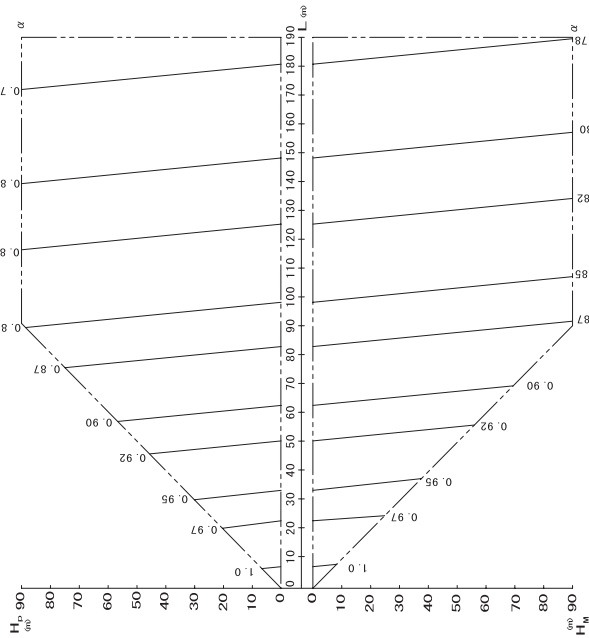
[Diameter of above case]

Model	gas	liquid
RXQ6.8ARYFK	φ 22.2	φ 12.7

- Read cooling capacity rate of change in the above figures based on the following equivalent length.
Overall equivalent length = (Equivalent length to main pipe) × (Correction factor + (Equivalent length after branching))
Choose a correction factor from the following table.
When cooling capacity is calculated: gas pipe size
Cooling (gas pipe)
Correction factor
Standard size
Size increase
1.0
0.5
(Example) RXQ6.8ARYFK
Equivalent length
8.0m
Equivalent length
4.0m
Indoor unit
Outdoor unit
Gas pipe - size increase
Liquid pipe - size increase
Branch
In the above case
(Cooling) Overall equivalent length = 80m × 0.5 + 40m = 80m
The rate of change in cooling capacity when HP = 0m is thus approximately 0.86

RXQ10ARYFK

1. Rate of change in cooling capacity



[Notes]

- These figures illustrate the rate of change in capacity of a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions there is only a minor deviation from the rate of change in capacity shown in the above figures.
- With this outdoor unit, evaporating pressure constant control when cooling is carried out.
- Method of calculating A/C capacity:
The maximum A/C capacity of the system will be either the total A/C capacity of the indoor units obtained from capacity characteristic table or the maximum A/C capacity of outdoor units as mentioned below, whichever smaller.
Calculating A/C capacity of outdoor units
• Condition: Indoor unit combination ratio does not exceed 100%.
$$\frac{\text{Maximum A/C capacity of outdoor units}}{\text{Maximum A/C capacity of indoor units}} = \frac{\text{A/C capacity of outdoor units obtained from capacity characteristic table at the 100\% combination}}{\text{A/C capacity change rate due to piping length to the farthest indoor unit}} \times 100\%$$

• Condition: Indoor unit combination ratio exceeds 100%.
$$\frac{\text{Maximum A/C capacity of outdoor units}}{\text{Maximum A/C capacity of indoor units}} = \frac{\text{A/C capacity of outdoor units obtained from capacity characteristic table at the combination}}{\text{A/C capacity change rate due to piping length to the farthest indoor unit}} \times 100\%$$

- When overall equivalent pipe length is 90m or more, the diameter of the main gas and liquid pipes (outdoor unit-branch sections) must be increased.
When level difference is 50m or more, the diameter of the main liquid pipe (outdoor unit-branch sections) must be increased.

[Diameter of above case]

Model	gas	liquid
RXQ10ARYFK	φ 25.4 ※	φ 12.7

※ If available on the site, use this size. Otherwise, not increased.

[Explanation of symbols]

- H_p : Level difference (m) between indoor and outdoor units where indoor unit in inferior position
 H_w : Level difference (m) between indoor and outdoor units where indoor unit in superior position
 L : Equivalent pipe length (m)
 α : Rate of change in cooling capacity

[Diameter of the main pipes (standard size)]

Model	gas	liquid
RXQ10ARYFK	φ 22.2	φ 9.5

[Temper grade and Thickness]

Temper grade	O Type	1/2H Type
Outer diameter	φ 9.5	φ 12.7
Minimum Wall Thickness	0.80	0.80
	0.80	0.88

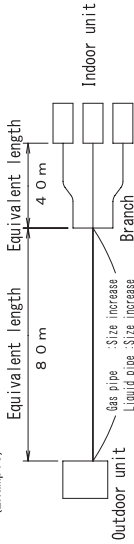
- Read cooling capacity rate of change in the above figures based on the following equivalent length.

Overall equivalent length= (Equivalent length to main pipe) × Correction factor + (Equivalent length after branching)

Choose a correction factor from the following table.
When cooling capacity is calculated: gas pipe size

Rate of change (object piping)	Correction factor
Cooling (gas pipe)	Standard size Size increase
	1.0 0.5

(Example) RXQ10ARYFK



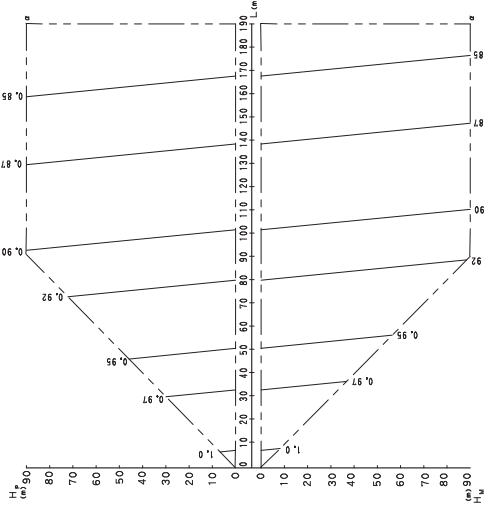
In the above case

(Cooling) Overall equivalent length=80m×0.5+40m=80m

The rate of change in cooling capacity when $H_p=0m$ is thus approximately 0.87

RXQ12ARYFK / RXQ14ARYFK / RXQ24ANRYFK / RXQ36ANRYFK

1. Rate of change in cooling capacity



[Notes]

- These figures illustrate the rate of change in capacity of a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions there is only a minor deviation from the rate of change in capacity shown in the above figures.
- With this outdoor unit, evaporating pressure constant control when cooling is carried out.
- Method of calculating A/C capacity:
The maximum A/C capacity of the system will be either the total A/C capacity of the indoor units obtained from capacity characteristic table or the maximum A/C capacity of outdoor units as mentioned below, whichever smaller.
Calculating A/C capacity of outdoor units
• Condition: Indoor unit combination ratio does not exceed 100%.
$$\text{Maximum A/C capacity of outdoor units} = \frac{\text{A/C capacity of outdoor units obtained from capacity characteristic table at the 100\% combination}}{\text{X Capacity change rate due to piping length to the farthest indoor unit}}$$

• Condition: Indoor unit combination ratio exceeds 100%.
$$\text{Maximum A/C capacity of outdoor units} = \frac{\text{A/C capacity of outdoor units obtained from capacity characteristic table at the combination}}{\text{X Capacity change rate due to piping length to the farthest indoor unit}}$$

- When overall equivalent pipe length is 90m or more, the diameter of the main gas and liquid pipes (outdoor unit-branch sections) must be increased.
When level difference is 50m or more, the diameter of the main liquid pipe (outdoor unit-branch sections) must be increased.
[Diameter of above case]

Model	gas	liquid	Model	gas	liquid
RXQ12, 14A			RXQ36A		
RXQ12, 14AH			RXQ36AH		
RXQ12, 14T			RXQ36T		
RXQ12, 14T			RXQ36T		
RXQ24A, 24AH			RXQ36T		
RXQ24A			RXQ36T		
RXQ24T			RXQ36T		
RXQ24T			RXQ36T		

[Explanation of symbols]
HP : Level difference (between indoor and outdoor units)
where indoor unit in inferior position
HM : Level difference (between indoor and outdoor units)
where indoor unit in superior position
L : Equivalent pipe length (m)
Q : Rate of change in cooling capacity
[Diameter of the main pipes (standard size)]

Model	gas	liquid
RXQ12, 14A/AH, 16AH		
RXQ12, 14A		
RXQ12, 14T		
RXQ12, 14T		
RXQ24A, 24AH		
RXQ24A		
RXQ24T		
RXQ24T		
RXQ36A		
RXQ36T		
RXQ36T		
RXQ36T		

[Temper grade and Thickness]

Temper grade	□ Type	1/2H Type
Outer diameter	φ12.7 φ15.9 φ19.1 φ22.2 φ28.6 φ34.9 φ41.3	
Minimum Wall Thickness	0.80 0.99 0.80 0.80 0.99 1.21 1.43	

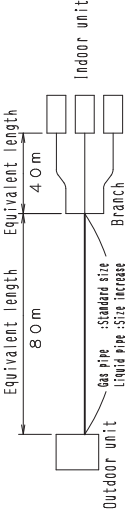
- Read cooling capacity rate of change in the above figures based on the following equivalent length.

Overall equivalent length =
(Equivalent length to main pipe) × Correction factor + (Equivalent length after branching)

Choose a correction factor from the following table.
When cooling capacity is calculated: gas pipe size

Rate of change (object piping)	Correction factor
Standard size	Size increase
12~14HP	1.0

(Example) RXQ12, 14, 24, 36T

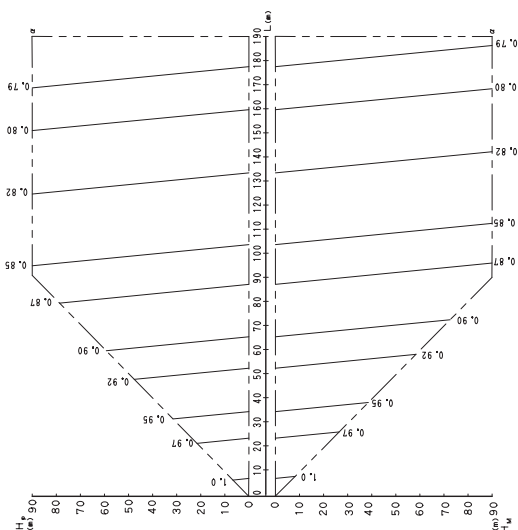


In the above case
(Cooling) Overall equivalent length = 80m × 1.0 + 40m = 120m

The rate of change in cooling capacity when HP=0m is thus approximately 0.88

RXQ16ARYFK

1. Rate of change in cooling capacity



Explanation of symbols]

ΔP : Level difference (■) between indoor and outdoor units

where indoor unit in inferior position

-IM: Level difference(m) between indoor and outdoor units

where indoor unit in superior position

: Equivalent pipe length(m)

 α : Rate of change in cooling Capacity

Diameter of the main pipes (standard size) [mm]

Model	gas	liquid
RXQ16A		
RXUQ16A		
RXQ16T	ϕ 28.6	ϕ 12.7
RWHQ16T		
RQQ16T		

Temper grade and Thickness]

Temper grade	O Type		1/2H Type
	Outer diameter	Ø	
Minimum Wall	Ø12.7	Ø15.9	Ø28.6
Thickness	0.80	0.99	0.99
			1.10

Notes]

1. These figures illustrate the rate of change in capacity of a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions there is only a minor deviation from the rate of change in capacity shown in the above figures.
2. with this outdoor unit, evaporating pressure constant control when cooling is carried out.
3. Method of calculating A/C capacity:
The maximum A/C capacity of the system will be either the total A/C capacity of the indoor units obtained from capacity characteristic table or the maximum A/C capacity of outdoor units as mentioned below whichever smaller.
Calculating A/C capacity of outdoor units
•Condition: Indoor unit combination ratio does not exceed 100%.

Maximum A/C capacity of outdoor units = A/C capacity of outdoor units obtained from capacity characteristic table at the 100% combination

X Capacity change rate due to piping length to the farthest indoor unit

Condition: Indoor unit combination ratio exceeds 100%.

Maximum A/C capacity of outdoor units = A/C capacity of outdoor units obtained from capacity characteristic table at the combination condition: indoor unit combination ratio exceeds 100%,

Y Capacity change rate due to piping length to the farthest indoor unit

4. When overall equivalent pipe length is 90m or more, the diameter of the main gas and liquid pipes (outdoor unit-branch sections) must be increased.
When level difference is 50m or more, the diameter of the main liquid pipe (outdoor unit-branch sections) must be increased.
[Diameter of above case]

Model	gas	liquid
RX016A		
RXU016A		
RX016T	$\phi 31.8^*$	$\phi 15.9$
RWH016T		
RQ016T		

★ If available on the site, use this size. Otherwise, not increased.

5. Read cooling capacity rate of change in the above figures based on the following equivalent length.

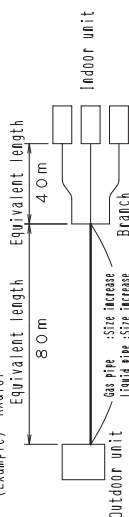
$$\text{Overall equivalent length} = (\text{Equivalent length to main pipe}) \times \text{Correction factor} + (\text{Equivalent length after branching})$$

Choose a correction factor from the following table.

When cooling capacity is calculated: gas pipe size

Rate of change (object piping)	Correction factor	
	Standard size	Size increase
Cooling (gas pipe)	1.0	0.5

(Example) RXQ16T



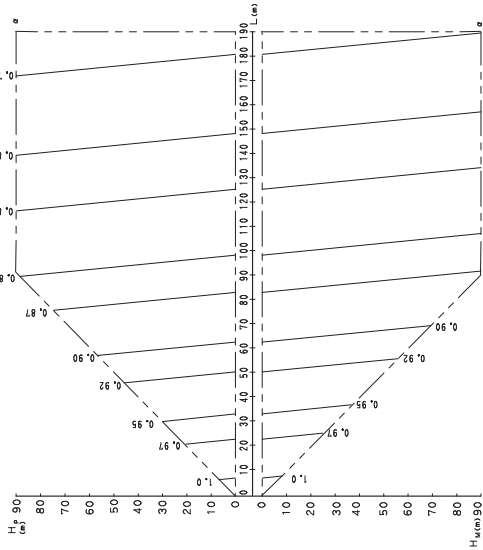
In the above case

(Cooling) Overall equivalent length = $80\text{m} \times 0.5 + 40\text{m} = 80\text{m}$

The rete of change in cooling capacity when $H_p=0m$ is thus approximately 0.88

RXQ20ARYFK / RXQ32ANRYFK / RXQ34ANRYFK

1. Rate of change in cooling capacity



[Explanation of symbols]
HP : Level difference(m)between indoor and outdoor units
where indoor unit in inferior position
HW : Level difference(m)between indoor and outdoor units
where indoor unit in superior position
L : Equivalent pipe length(m)
α : Rate of change in cooling capacity
[Diameter of the main pipes(standard size)]

Model	gas	liquid
RXQ20A		
RXUQ20A		
RXQ20T	φ 28.6	φ 15.9
RWHQ20T		
RQ020T		
RXQ32, 34A		
RXUQ32, 34A		
RXQ32, 34T	φ 34.9	φ 19.1
RWHQ32, 34T		
RQ032, 34T		
RQ026, 28, 30, 32, 34AH		

[Temper grade and Thickness]

Temper grade	□ Type	1/2H Type
Outer diameter	φ 15.9	φ 19.1 φ 22.2 φ 28.6 φ 31.8 φ 34.9 φ 38.1
Minimum Wall Thickness	0.99	0.80 0.80 0.99 1.10 1.21 1.32

[Notes]

- These figures illustrate the rate of change in capacity of a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions there is only a minor deviation from the rate of change in capacity shown in the above figures.
- With this outdoor unit, evaporating pressure constant control when cooling is carried out.
- Method of calculating A/C capacity:
The maximum A/C capacity of the system will be either the total A/C capacity of the indoor units obtained from capacity characteristic table or the maximum A/C capacity of outdoor units as mentioned below, whichever smaller.
Calculating A/C capacity of outdoor units
• Condition: Indoor unit combination ratio does not exceed 100%.
Maximum A/C capacity of outdoor units = A/C capacity of outdoor units obtained from capacity characteristic table at the 100% combination

• Condition: Indoor unit combination ratio exceeds 100%.
Maximum A/C capacity of outdoor units = A/C capacity of outdoor units obtained from capacity characteristic table at the combination

• Condition: Indoor unit combination ratio exceeds 100%.
Maximum A/C capacity of outdoor units = A/C capacity of outdoor units obtained from capacity characteristic table at the combination

- When overall equivalent pipe length is 90m or more, the diameter of the main gas and liquid pipes (outdoor unit-branch sections) must be increased.
When level difference is 50m or more, the diameter of the main liquid pipe (outdoor unit-branch sections) must be increased.
[Diameter of above case]

Model	gas	liquid	Model	gas	liquid
RXQ20A			RXQ32, 34A		
RXUQ20A			RXUQ32, 34A		
RXQ20T	φ 31.8	φ 19.1	RXQ32, 34T	φ 38.1	φ 22.2
RWHQ20T			RWHQ32, 34T		
RQ020T			RQ032, 34T		

* If available on the site, use this size. Otherwise, not increased.

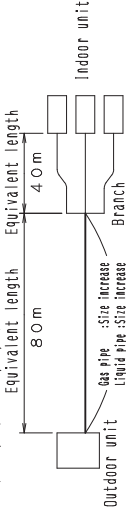
- Read cooling capacity rate of change in the above figures based on the following equivalent length.

Overall equivalent length= (Equivalent length to main pipe) × Correction factor + (Equivalent length after branching)

Choose a correction factor from the following table, When cooling capacity is calculated: gas pipe size

Rate of change (object piping)	Correction factor
Cooling (gas pipe)	Standard size Size increase
	1.0 0.5

(Example) RXQ20, 32, 34T



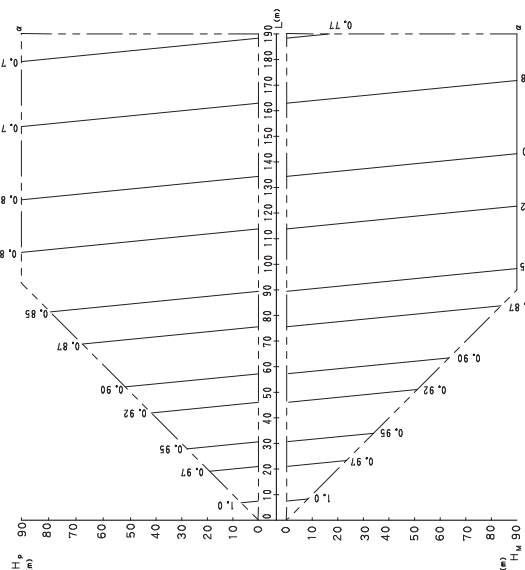
In the above case

(Cooling) Overall equivalent length = 80m × 0.5 + 40m = 80m

The rate of change in cooling capacity when HP = 0m is thus approximately 0.87

RXQ22ANRYFK

1. Rate of change in cooling capacity



[Notes]

1. These figures illustrate the rate of change in capacity of a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions there is only a minor deviation from the rate of change in capacity shown in the above figures.
2. With this outdoor unit, evaporating pressure constant control when cooling is carried out.
3. Method of calculating A/C capacity:
The maximum A/C capacity of the system will be either the total A/C capacity of the indoor units obtained from capacity characteristic table or the maximum A/C capacity of outdoor units as mentioned below whichever smaller.
Calculating A/C capacity of outdoor units

calculating n/c capacity of 0000000000000000

•Condition: Indoor unit combination ratio does not exceed 100%.

Maximum A/C capacity of outdoor units = A/C capacity of outdoor units obtained from capacity characteristic table at the 100% combination

X Capacity change rate due to piping length to the farthest indoor unit

- Condition: Indoor unit combination ratio exceeds 100%.

Maximum A/C capacity of outdoor units = A/C capacity of outdoor units obtained from capacity characteristic table at the combination

X Capacity change rate due to piping length to the fastest indoor unit

4. When overall equivalent pipe length is 90m or more, the diameter of the main gas and liquid pipes (outdoor unit-branch sections) must be increased.
When level difference is 50m or more, the diameter of the main liquid pipe (outdoor unit-branch sections) must be increased.

[illegible]

The rete of change in cooling capacity when $H_p=0m$ is thus approximately 0.86

[Explanation of symbols]

Hp: Level difference(m) between indoor and outdoor units

where indoor unit in inferior position

HM: Level difference(m)between indoor and outdoor units

where indoor unit in superior position

L : Equivalent pipe length(m)

 α : Rate of change in cooling capacity

[Diameter of the main pipes(standard size)]

Model	gas	liquid
RX022A		
RXU022A		
RX022T		
RWH022T	ϕ 28.6	ϕ 15.9
RQ022T		
RX018, 20, 22AH		

[Temper grade and Thickness]

Temper grade	0 Type	1/2H Type
Outer diameter	φ15.9	φ19.1
Minimum Wall Thickness	0.99	0.80
		0.99
		1.10

5. Read cooling capacity rate of change in the above figures based on the following equivalent length.

Overall equivalent length=

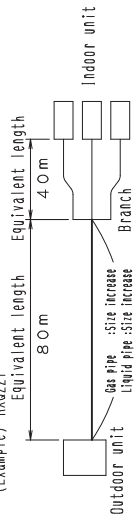
$$\text{Equivalent length} = (\text{Equivalent length to main pipe}) \times \text{Correction factor} + (\text{Equivalent length after branching})$$

Choose a correction factor from the following table.

When cooling capacity is calculated: gas pipe size

Rate of change (object piping)	Correction factor	
	Standard size	Size increase
Cooling (gas pipe)	1 0	0 5

(Example) RXQ22T



in the above case

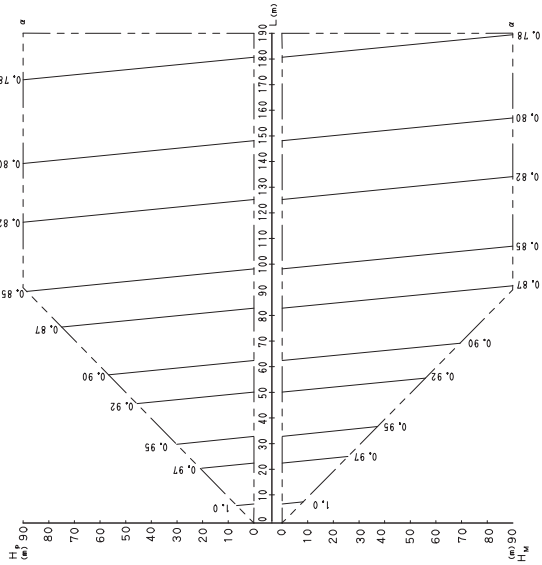
(Cooling) Overall equivalent length = $80\text{m} \times 0.5 + 40\text{m} = 80\text{m}$

Model	gas	liquid
RX022A		
RXUQ22A		
RXQ22T	$\phi 31.8$ ※	$\phi 19.1$
RWHQ22T		
RQ022T		

* If available on the site, use this size. Otherwise, not increased.

RXQ46ANRYFK

1. Rate of change in cooling capacity



[Notes]

- These figures illustrate the rate of change in capacity of a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions there is only a minor deviation from the rate of change in capacity shown in the above figures.
- With this outdoor unit, evaporating pressure constant control when cooling is carried out.
- Method of calculating A/C capacity:
The maximum A/C capacity of the system will be either the total A/C capacity of the indoor units obtained from capacity characteristic table or the maximum A/C capacity of outdoor units as mentioned below, whichever smaller.
Calculating A/C capacity of outdoor units

• Condition: Indoor unit combination ratio does not exceed 100%.

Maximum A/C capacity of outdoor units = $\frac{\text{A/C capacity of outdoor units obtained from capacity characteristic table at the 100% combination}}{\text{Indoor unit combination ratio}}$

• Condition: Indoor unit combination ratio exceeds 100%.

Maximum A/C capacity of outdoor units = $\frac{\text{A/C capacity of outdoor units obtained from capacity characteristic table at the combination}}{\text{Indoor unit combination ratio}}$

• Condition: Indoor unit combination ratio exceeds 100%.

Maximum A/C capacity of outdoor units = $\frac{\text{A/C capacity of outdoor units obtained from capacity characteristic table at the combination}}{\text{Indoor unit combination ratio}}$

- When overall equivalent pipe length is 90m or more, the diameter of the main gas and liquid pipes (outdoor unit-branch sections) must be increased.

When level difference is 50m or more, the diameter of the main liquid pipe (outdoor unit-branch sections) must be increased.

[Diameter of above case]

Model	gas	liquid
RXQ46A	Not	Increased
RXQ46T	Not	Increased
RWHQ46T	Not	Increased
ROQ46T	Not	Increased

[Explanation of symbols]

HP: Level difference between indoor and outdoor units
Where indoor unit in inferior position
HW: Level difference between indoor and outdoor units
Where indoor unit in superior position
L: Equivalent pipe length(m)
α: Rate of change in cooling capacity

[Diameter of the main pipes(standard size)]

Model	gas	liquid
RXQ46A	φ 41.3	φ 19.1
RXQ46T	φ 41.3	φ 19.1
RWHQ46T	φ 41.3	φ 19.1
ROQ46T	φ 41.3	φ 19.1

[Temper grade and Thickness]

Temper grade	1/2H Type
Outer diameter	φ 19.1 φ 22.2 φ 41.3
Minimum Wall Thickness	0.80 0.80 1.43

- Read cooling capacity rate of change in the above figures based on the following equivalent length.

Overall equivalent length=

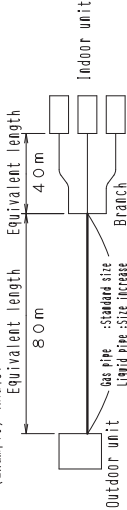
(Equivalent length to main pipe) × Correction factor + (Equivalent length after branching)

Choose a correction factor from the following table.

When cooling capacity is calculated: gas pipe size

Rate of change (object piping)	Correction factor	
	Standard size	Size increase
Cooling (gas pipe)	1.0	

(Example) RXQ46T



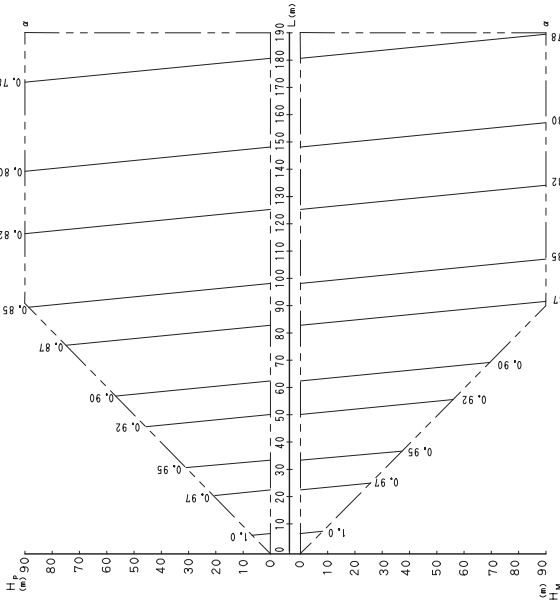
In the above case

(Cooling) Overall equivalent length = 80m × 1.0 + 40m = 120m

The rate of change in cooling capacity when HP=0m is thus approximately 0.82

RXQ48ANRYFK

1. Rate of change in cooling capacity



[Notes]

1. These figures illustrate the rate of change in capacity of a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions.
Moreover, under partial load conditions there is only a minor deviation from the rate of change in capacity shown in the above figures.
2. With this outdoor unit, evaporating pressure constant control when cooling is carried out.
3. Method of calculating A/C capacity:
The maximum A/C capacity of the system will be either the total A/C capacity of the indoor units obtained from capacity characteristic table or the maximum A/C capacity of outdoor units as mentioned below, whichever smaller.
Calculating A/C capacity of outdoor units
• Condition: Indoor unit combination ratio does not exceed 100%.
Maximum A/C capacity of outdoor units = A/C capacity of outdoor units obtained from capacity characteristic table at the 100% combination
X Capacity change rate due to piping length to the farthest indoor unit
• Condition: Indoor unit combination ratio exceeds 100%.
Maximum A/C capacity of outdoor units = A/C capacity of outdoor units obtained from capacity characteristic table at the combination
X Capacity change rate due to piping length to the farthest indoor unit
4. When overall equivalent pipe length is 90m or more, the diameter of the main gas and liquid pipes (outdoor unit-branch sections) must be increased.
When level difference is 50m or more, the diameter of the main liquid pipe (outdoor unit-branch sections) must be increased.
[Diameter of above case]

Model	gas	liquid
RXQ48A		
RXU48A	Not	φ 22.2
RXQ48T	Increased	
RWH48T		
RQ48T		

[Explanation of symbols]
Hp : Level difference (m) between indoor and outdoor units
Where indoor unit in inferior position
Hw : Level difference (m) between indoor and outdoor units
Where indoor unit in superior position
L : Equivalent pipe length (m)
α : Rate of change in cooling capacity

[Diameter of the main pipes (standard size)]

Model	gas	liquid
RXQ48A		
RXU48A	φ 41.3	φ 19.1
RXQ48T		
RWH48T		
RQ48T		

[Temper grade and Thickness]

Temper grade	1/2H Type
Outer diameter	φ 19.1 φ 22.2 φ 41.3
Minimum Wall Thickness	0.80 0.80 1.43

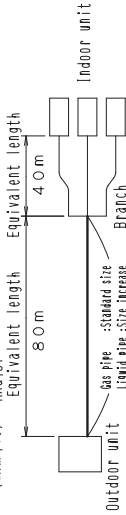
5. Read cooling capacity rate of change in the above figures based on the following equivalent length,

Overall equivalent length =
(Equivalent length to main pipe) × Correction factor + (Equivalent length after branching)

Choose a correction factor from the following table.
When cooling capacity is calculated: gas pipe size

Rate of change (Object piping)	Correction factor
Standard size	1.0
Size increase	
Cooling (gas pipe)	1.0

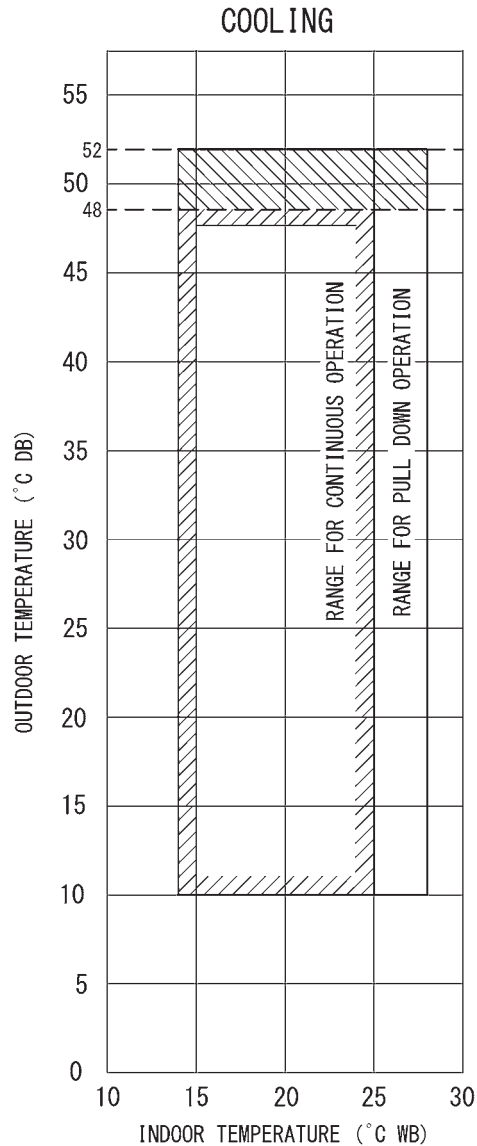
(Example) RXQ48T



In the above case
(Cooling) Overall equivalent length = 80m × 1.0 + 40m = 120m
The rate of change in cooling capacity when Hp = 0m is thus approximately 0.82

10. Operation Limits

RXQ6ARYFK / RXQ8ARYFK / RXQ10ARYFK / RXQ12ARYFK / RXQ14ARYFK / RXQ16ARYFK /
 RXQ18ANRYFK / RXQ20ANRYFK / RXQ22ANRYFK / RXQ24ANRYFK / RXQ26ANRYFK /
 RXQ28ANRYFK / RXQ30ANRYFK / RXQ32ANRYFK / RXQ34ANRYFK / RXQ36ANRYFK /
 RXQ38ANRYFK / RXQ40ANRYFK / RXQ42ANRYFK / RXQ44ANRYFK / RXQ46ANRYFK /
 RXQ48ANRYFK

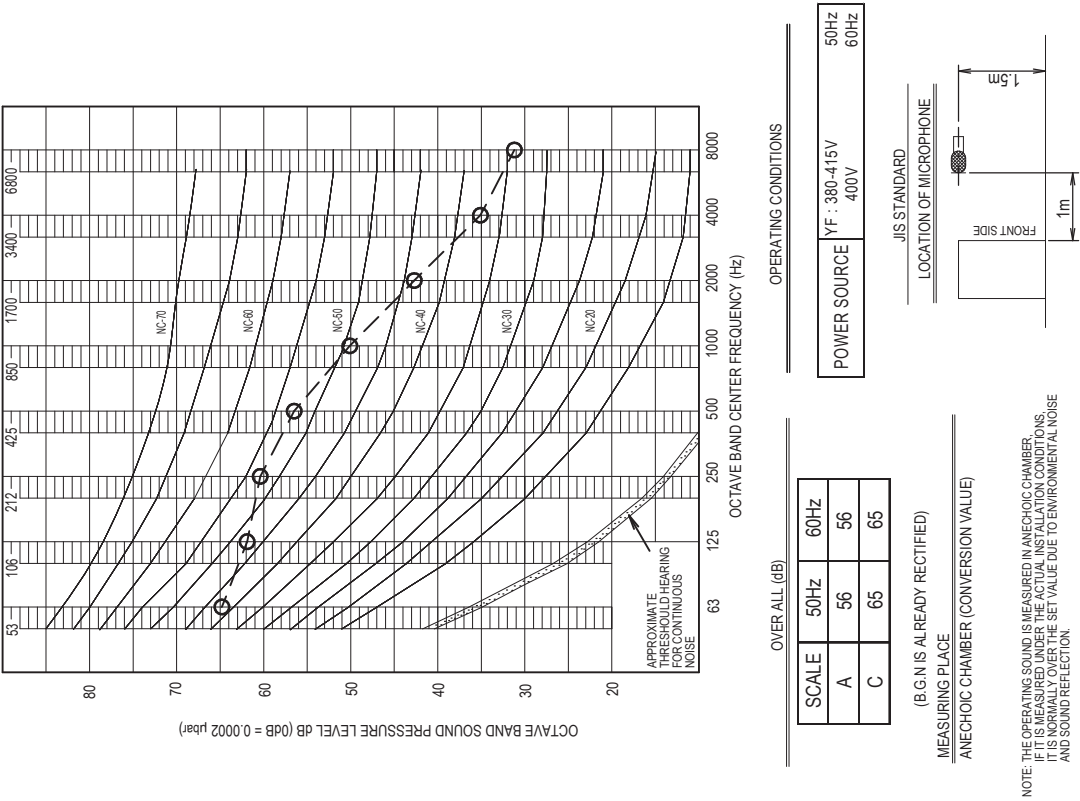


NOTES)

- THIS FIGURE ASSUMES THE FOLLOWING OPERATIONAL CONDITIONS
 INDOOR AND OUTDOOR UNIT
 EQUIVALENT PIPING LENGTH: 7.5m
 LEVEL DIFFERENCE: 0m
- OPERATION RANGE IS VALID IN CASE DIRECT EXPANSION INDOOR UNITS ARE USED.
 IF OTHER INDOOR UNITS ARE USED, REFER TO THE DOCUMENTATION OF THE RESPECTIVE INDOOR UNITS.
-  UNIT OPERATION IS POSSIBLE, BUT NO GUARANTEED CAPACITY.

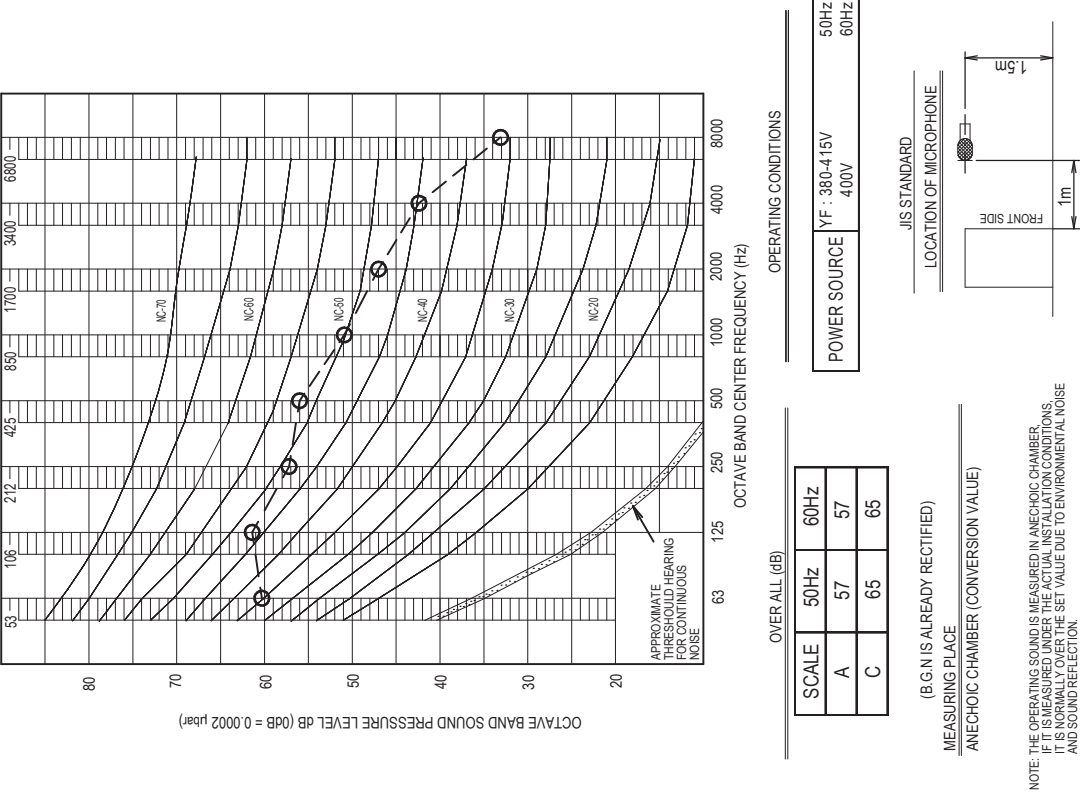
11. Sound Levels

RXQ6ARYFK



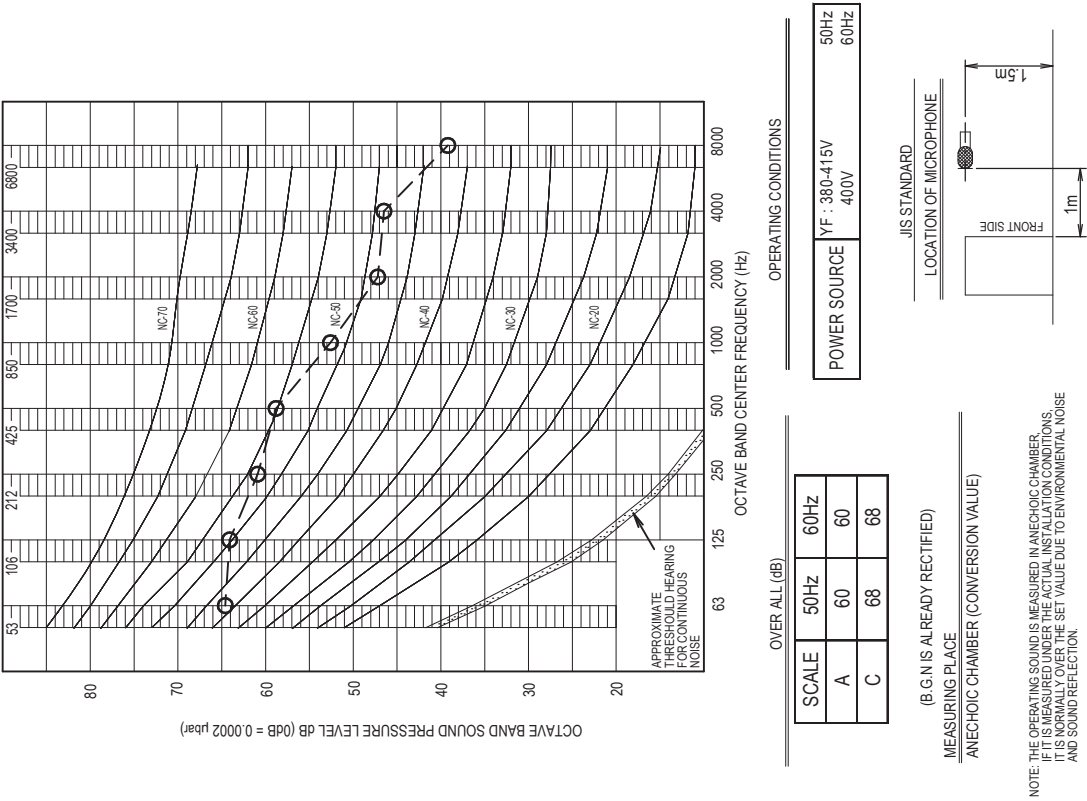
4D124350

RXQ8ARYFK



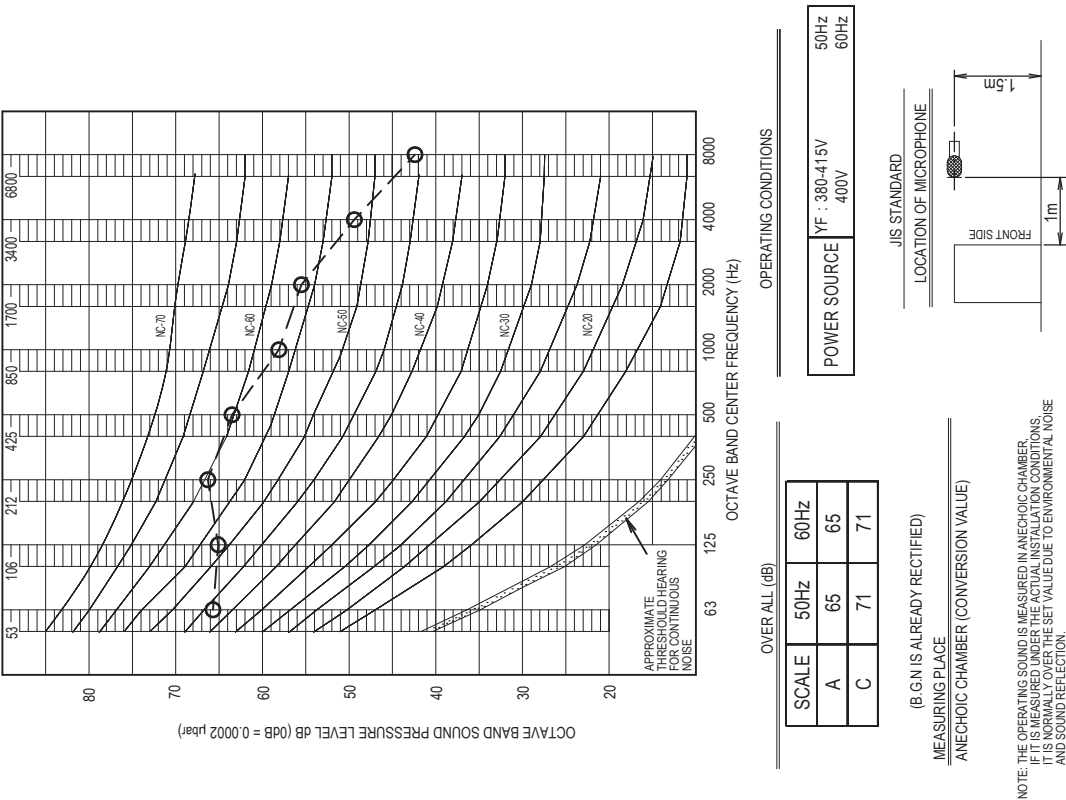
4D124349

RXQ10ARYFK / RXQ12ARYFK



4D124353

RXQ14ARYFK / RXQ16ARYFK



4D124352

12. Optional Accessories

Optional accessories		RXQ6ARYFK	RXQ8ARYFK	RXQ10ARYFK	RXQ12ARYFK	RXQ14ARYFK	RXQ16ARYFK
Distributive Piping	HEADER PACK	BHF6RHP6Z (Max. 4 branch) BHF6ARHP6Z (Max. 6 branch) BHF8RHP6Z (Max. 6 branch) BHF10RHP6Z (Max. 6 branch) BHF16RHP6Z (Max. 6 branch)					
	REFNET joint	KHRP26A22T6		KHRP26A22T6, KHRP26A33T6, KHRP26A72T6			
Pipe size reducer		—					
Outdoor unit multi connection piping kit		—					
Option printed circuit board	DIII-NET expand adaptor	DTA109A51					
	External control adaptor	DTA104A61					
	Home Automation Interface Adaptor	DTA116A51					
	Optional plate for control adaptor ★1	—		BKS26A			

Optional accessories		RXQ18ANRYFK	RXQ20ANRYFK	RXQ22ANRYFK	RXQ24ANRYFK	RXQ26ANRYFK	RXQ28ANRYFK
Distributive Piping	HEADER PACK	—					
	REFNET joint	KHRP26A22T6, KHRP26A33T6, KHRP26A72T6			KHRP26A22T6, KHRP26A33T6, KHRP26A72T6, KHRP26A73T6		
Pipe size reducer		—			KHRP26M73TP6		
Outdoor unit multi connection piping kit		BHFP22P1006					
Option printed circuit board	DIII-NET expand adaptor	DTA109A51					
	External control adaptor	DTA104A61					
	Home Automation Interface Adaptor	DTA116A51					
	Optional plate for control adaptor ★1	BKS26A					

Optional accessories		RXQ30ANRYFK	RXQ32ANRYFK	RXQ34ANRYFK	RXQ36ANRYFK	RXQ38ANRYFK	RXQ40ANRYFK
Distributive Piping	HEADER PACK	—					
	REFNET joint	KHRP26A22T6, KHRP26A33T6, KHRP26A72T6, KHRP26A73T6					
Pipe size reducer		KHRP26M73TP6					
Outdoor unit multi connection piping kit		BHFP22P1006		BHFP22P1516			
Option printed circuit board	DIII-NET expand adaptor	DTA109A51					
	External control adaptor	DTA104A61					
	Home Automation Interface Adaptor	DTA116A51					
	Optional plate for control adaptor ★1	BKS26A					

Optional accessories		RXQ42ANRYFK	RXQ44ANRYFK	RXQ46ANRYFK	RXQ48ANRYFK
Distributive Piping	HEADER PACK	—			
	REFNET joint	KHRP26A22T6, KHRP26A33T6, KHRP26A72T6, KHRP26A73T6			
Pipe size reducer		KHRP26M73TP6			
Outdoor unit multi connection piping kit		BHFP22P1516			
Option printed circuit board	DIII-NET expand adaptor	DTA109A51			
	External control adaptor	DTA104A61			
	Home Automation Interface Adaptor	DTA116A51			
	Optional plate for control adaptor ★1	BKS26A			

C: 3D127388C

Note:

★1. This plate is necessary for DTA109A51, DTA104A61 and DTA116A51 when installing into outdoor units with capacity index 10 or more.

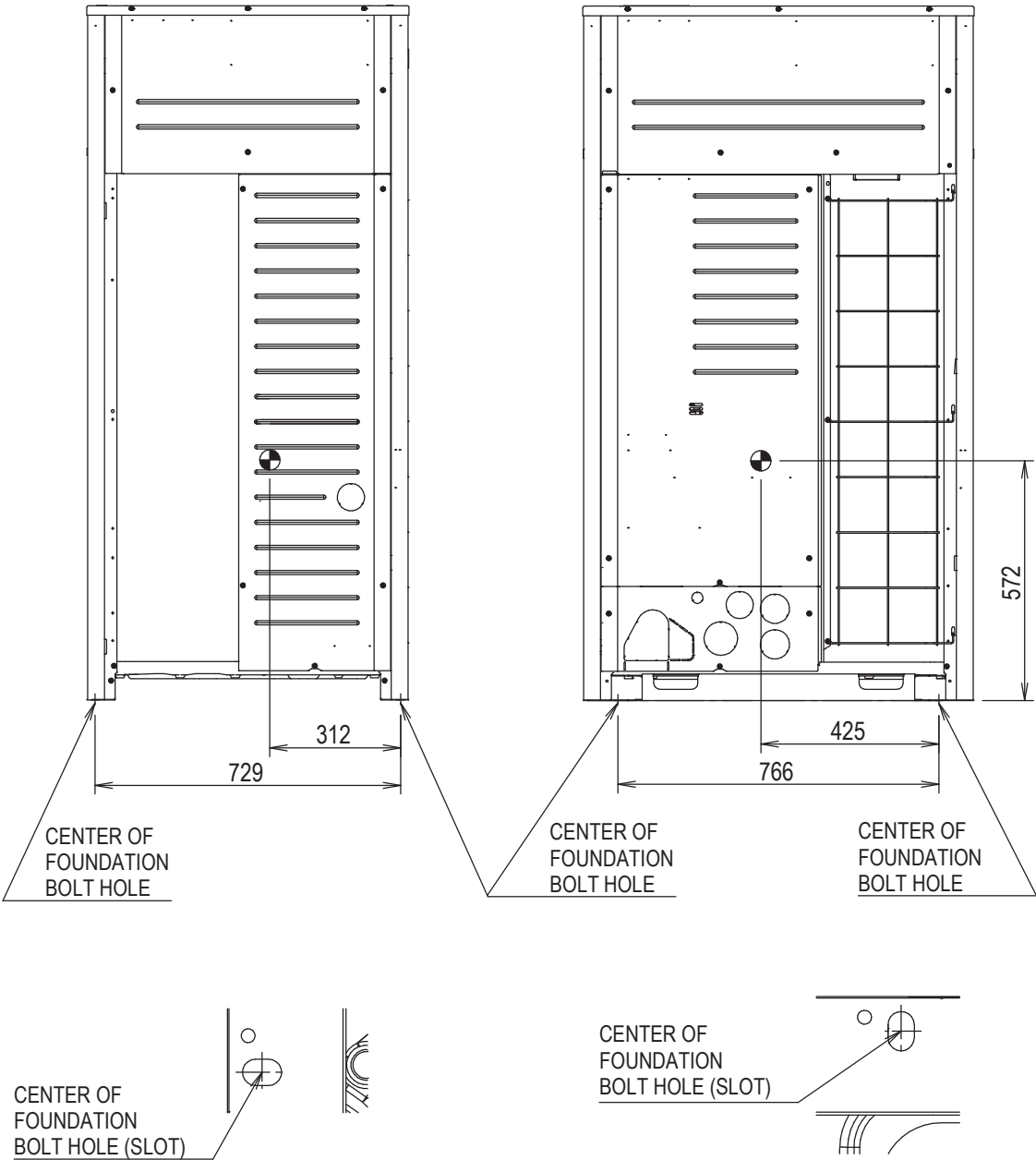
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1. Centre of Gravity

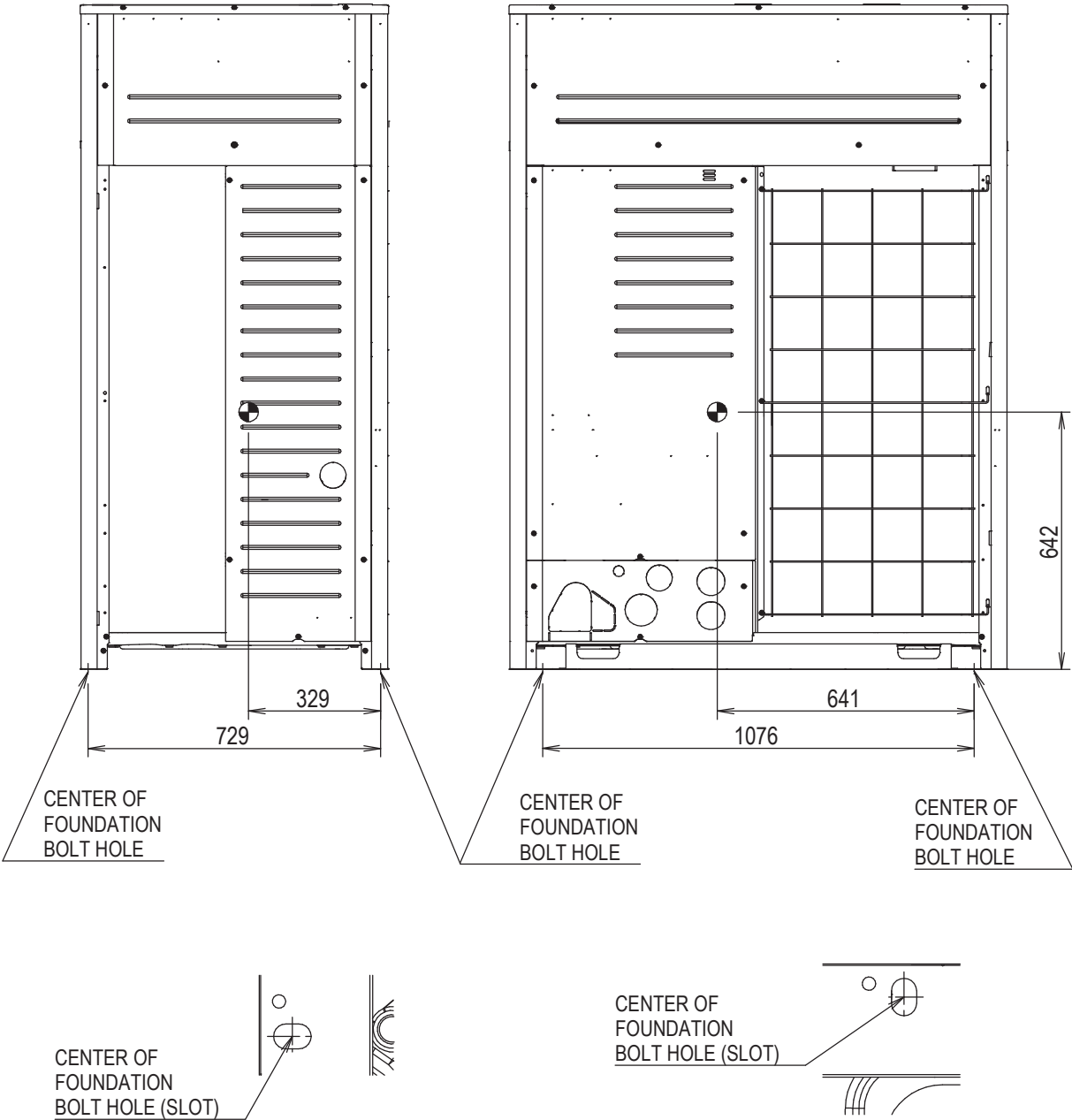
RXQ6ARYFK / RXQ8ARYFK

Unit: mm



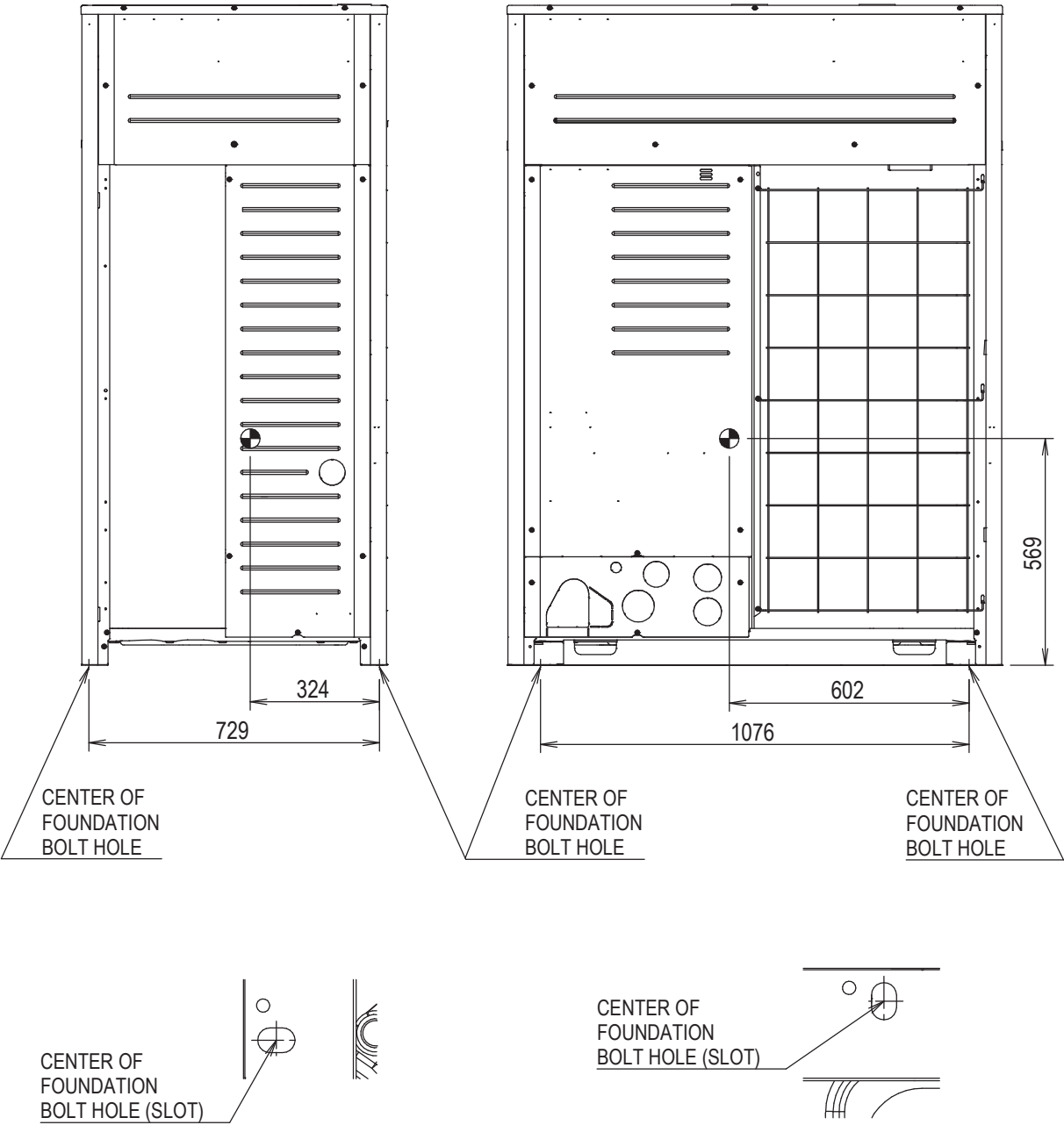
RXQ10ARYFK / RXQ12ARYFK

Unit: mm



RXQ14ARYFK / RXQ16ARYFK

Unit: mm

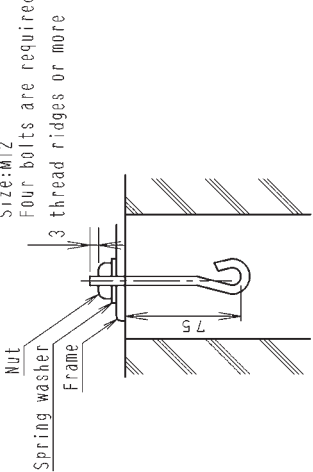


2. Foundation of Units

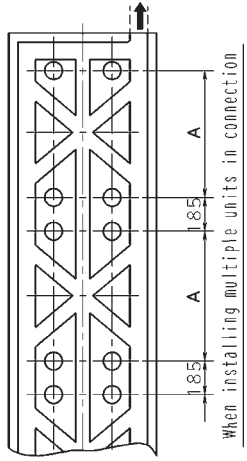
RXQ6ARYFK / RXQ8ARYFK / RXQ10ARYFK / RXQ12ARYFK / RXQ14ARYFK / RXQ16ARYFK /
RXQ18ANRYFK / RXQ20ANRYFK / RXQ22ANRYFK / RXQ24ANRYFK / RXQ26ANRYFK /
RXQ28ANRYFK / RXQ30ANRYFK / RXQ32ANRYFK / RXQ34ANRYFK / RXQ36ANRYFK /
RXQ38ANRYFK / RXQ40ANRYFK / RXQ42ANRYFK / RXQ44ANRYFK / RXQ46ANRYFK /
RXQ48ANRYFK

Unit: mm

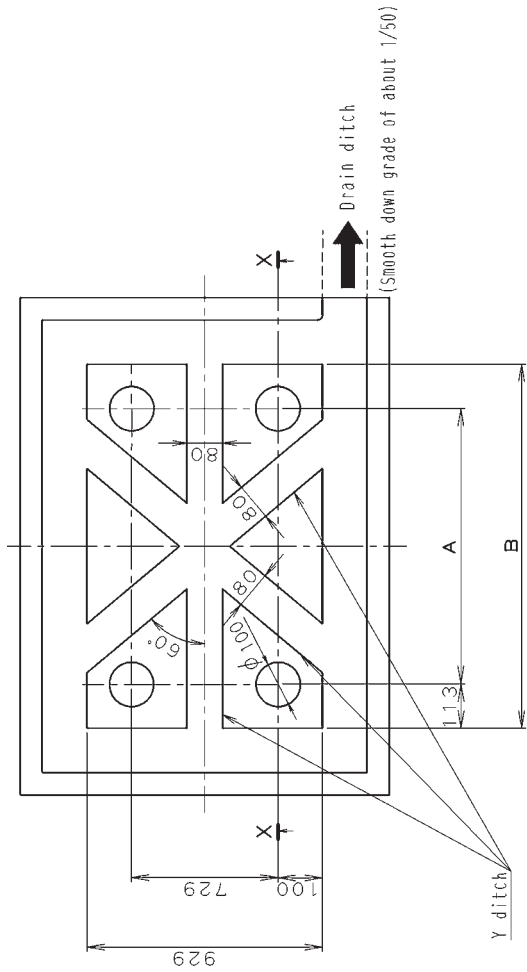
Foundation bolt type:JA
Size:M12
Four bolts are required
3 thread ridges or more



Foundation bolt executing method

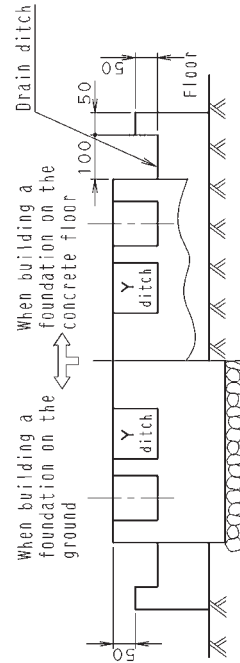


MODEL	A	B
RXQ6-8ARYFK	766	992
RXQ10-12-14-16ARYFK	1076	1302



Drain ditch

(Smooth down grade of about 1/50)



X-X cross section

- (Notes)
- 1.The proportions of cement:sand:gravel for the concrete shall be 1:2:4,and the reinforcement bars that their diameter are 10mm,(approx.300mm intervals)shall be placed.
 - 2.The surface shall be finished with mortar.The corner edges shall be chamfered.
 - 3.When the foundation is built on a concrete floor,rubble is not necessary.However,the surface of the section on which the foundation is built shall have rough finish.
 - 4.A drain ditch shall be made around the foundation to thoroughly drain water from the equipment installation area.
 - 5.When installing the equipment on a roof,the floor strength shall be checked,and water-proofing measures shall be taken.

3D124347

3. Installation Manual

Installation manual

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Thank you for purchasing this Daikin VRV X system.

The original instructions are written in English. All other languages are translations of the original instructions.



CAREFULLY READ THESE INSTRUCTIONS BEFORE INSTALLATION. THEY WILL TELL YOU HOW TO INSTALL AND HOW TO CONFIGURE THE UNIT PROPERLY. KEEP THIS MANUAL IN A HANDY PLACE FOR FUTURE REFERENCE.

1. Definitions

1.1 Meaning of warnings and symbols

Warnings in this manual are classified according to their severity and probability of occurrence.



DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.



NOTICE

Indicates situations that may result in equipment or property-damage accidents only.



INFORMATION

This symbol identifies useful tips or additional information.

Some types of danger are represented by special symbols:



Electric current.



Danger of burning and scalding.

1.2 Meaning of used terms

Installation manual:

Instruction manual specified for a certain product or application, explaining how to install, configure and maintain it.

Operation manual:

Instruction manual specified for a certain product or application, explaining how to operate it.

Maintenance instructions:

Instruction manual specified for a certain product or application, which explains (if relevant) how to install, configure, operate and/or maintain the product or application.

Dealer:

Sales distributor for products as per the subject of this manual.

Installer:

Technical skilled person who is qualified to install products as per the subject of this manual.

User:

Person who is owner of the product and/or operates the product.

Service company:

Qualified company which can perform or coordinate the required service to the unit.

Applicable legislation:

All international, European, national and local directives, laws, regulations and/or codes which are relevant and applicable for a certain product or domain.

Accessories:

Equipment which is delivered with the unit and which needs to be installed according to instructions in the documentation.

Optional equipment:

Equipment which can optionally be combined to the products as per the subject of this manual.

Field supply:

Equipment which needs to be installed according to instructions in this manual, but which are not supplied by Daikin.

2. General safety precautions

The precautions listed here are divided into the following four types. They all cover very important topics, so be sure to follow them carefully.



DANGER: ELECTRICAL SHOCK

Switch off all power supply before removing the electrical component box service panel or before making any connections or touching electrical parts.

Do not touch any switch with wet fingers. Touching a switch with wet fingers can cause electrical shock. Before touching electrical parts, turn off all applicable power supply.

To avoid electric shock, be sure to disconnect the power supply 1 minute or more before servicing the electrical parts. Even after 1 minute, always measure the voltage at the terminals of the main terminal, main circuit capacitors or electrical parts and, before touching, be sure that those voltages are 50 V DC or less.

When service panels are removed, live parts can easily be touched by accident. Never leave the unit unattended during installation or servicing when the service panel is removed.



DANGER: DO NOT TOUCH PIPING AND INTERNAL PARTS

Do not touch the refrigerant piping, water piping or internal parts during and immediately after operation. The piping and internal parts may be hot or cold depending on the working condition of the unit.

Your hand may suffer burns or frostbite if you touch the piping or internal parts. To avoid injury, give the piping and internal parts time to return to normal temperature or, if you must touch them, be sure to wear protective gloves.

Also, at least, following information shall be provided at an accessible place of the system:

- Instructions for shutting down the system in case of an emergency.
- Name and address of fire department, police and hospital.
- Name, address and day and night telephone numbers for obtaining service.

FIRST OF ALL

- This document is an installation manual for the Daikin RXQ Series VRV Inverter. Before installing the unit, read this manual thoroughly, and following the instructions contained in it. After installation, do a test run to make sure the unit runs properly, and then explain how to operate and take care of the unit to the customer, using the operation manual.
- Lastly, make sure the customer keeps this manual, along with the operation manual, in a safe place. This manual does not describe how to install the indoor unit.
- Refer to the installation manual included with the indoor unit for that.

2.1 Safety precautions

Please read these "Safety precautions" carefully before installing air conditioning unit and be sure to install it correctly.

After completing the installation, make sure that the unit operates properly during the start-up operation.

Also, inform customers that they should store this installation manual along with the operation manual for future reference.

After completing installation, conduct a trial operation to check for faults and explain to the customer how to operate the air conditioner and take care of it with the aid of operation manual. Ask the customer to store the installation manual along with the operation manual for future reference.

This air conditioner comes under the term "appliances not accessible to the general public".

Please instruct the customer on how to operate the unit and keep it maintained.

Meaning of WARNING and CAUTION notices



WARNING.....Failure to follow these instructions properly may result in personal injury or loss of life.



CAUTION.....Failure to observe these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances.

**WARNING**

- Ask your dealer or qualified personnel to carry out installation work. Do not attempt to install the air conditioner yourself. Improper installation may result in water leakage, electric shocks or fire.
- Consult your local regarding what to do in case of refrigerant leakage, when the air conditioner is to be installed in a small room, it is necessary to take proper measures so that the amount of any leaked refrigerant does not exceed the concentration limit in the event of leakage. Otherwise, this may lead to an accident due to oxygen depletion.
- Install the air conditioner in accordance with the instructions in this installation manual. Improper installation may result in water leakage, electric shocks or fire.
- When installing the unit in a small room, take measures against to keep refrigerant concentration from exceeding allowable safety limits in the event of refrigerant leakage. Contact the place of purchase for more information. Excessive refrigerant in a closed ambient can lead to oxygen deficiency.
- Be sure to use only the specified accessories and parts for installation work. Failure to use the specified parts may result in the unit falling, water leakage, electric shocks or fire.
- Install the air conditioner on a foundation strong enough to withstand the weight of the unit. A foundation of insufficient strength may result in the equipment falling and causing injury.
- Carry out the specified installation work after taking into account strong winds, typhoons or earthquakes. Failure to do so during installation work may result in the unit falling and causing accidents.
- Make sure that a separate power supply circuit is provided for this unit and that all electrical work is carried out by qualified personnel according to local laws and regulations and this installation manual. An insufficient power supply capacity or improper electrical construction may lead to electric shocks or fire.
- Make sure that all wiring is secured, the specified wires are used, and that there is no strain on the terminal connections or wires. Improper connections or securing of wires may result in abnormal heat build-up or fire.
- When wiring the power supply and connecting the remote controller wiring and transmission wiring, position the wires so that the EL.COMPO.BOX lid can be securely fastened. Improper positioning of the EL.COMPO.BOX lid may result in electric shocks, fire or the terminals overheating.
- If refrigerant gas leaks during installation, ventilate the area immediately. Toxic gas may be produced if the refrigerant comes into contact with fire.
- After completing installation, check for refrigerant gas leakage. Toxic gas may be produced if the refrigerant gas leaks into the room and comes into contact with a source of fire, such as a fan heater, stove or cooler.
- Do not directly touch refrigerant that has leaked from refrigerant pipes or other areas, as there is a danger of frostbite.
- Be sure to switch off the unit before touching any electrical parts.
- Do not allow children to climb on the outdoor unit and avoid placing objects on the unit. Injury may result if the unit becomes loose and falls.
- Be sure to earth the air conditioner. Do not earth the unit to a utility pipe, lightning conductor or telephone earth lead. Imperfect earthing may result in electric shocks or fire. A high surge current from lightning or other sources may cause damage to the air conditioner.
- Be sure to install an earth leakage breaker. Failure to install an earth leakage breaker may result in electric shocks or fire.

**CAUTION**

- While following the instructions in this installation manual, install drain piping to ensure proper drainage and insulate piping to prevent condensation. Improper drain piping may result in indoor water leakage and property damage.
- Install the indoor and outdoor units, power cord and connecting wires at least 1 meter away from televisions or radios to prevent picture interference and noise. (Depending on the incoming signal strength, a distance of 1 meter may not be sufficient to eliminate noise.)
- Remote controller (wireless kit) transmitting distance can be shorter than expected in rooms with electronic fluorescent lamps (inverter or rapid start types). Install the indoor unit as far away from fluorescent lamps as possible.
- Make sure to provide for adequate measures in order to prevent that the outdoor unit be used as a shelter by small animals. Small animals making contact with electrical parts can cause malfunctions, smoke or fire. Please instruct the customer to keep the area around the unit clean.
- Do not install the air conditioner in the following locations:
 1. Where there is a high concentration of mineral oil spray or vapour (e.g. a kitchen). Plastic parts will deteriorate, parts may fall off and water leakage could result.
 2. Where corrosive gas, such as sulphurous acid gas, is produced. Corroding of copper pipes or soldered parts may result in refrigerant leakage.
 3. Near machinery emitting electromagnetic radiation. Electromagnetic radiation may disturb the operation of the control system and result in a malfunction of the unit.
 4. Where flammable gas may leak, where there is carbon fibre or ignitable dust suspensions in the air, or where volatile flammables such as paint thinner or gasoline are handled. Operating the unit in such conditions may result in fire.
- In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

2.2 Special notice of product**[REFRIGERANT]****VRV X System use R-410A refrigerant.**

- The refrigerant R-410A requires that strict precautions be observed for keeping the system clean, dry and tightly sealed. Read the chapter "REFRIGERANT PIPING" carefully and follow these procedures correctly.
 - A. Clean and dry
Strict measures must be taken to keep impurities (including SUNISO oil and other mineral oils as well as moisture) out of the system.
 - B. Tight sealed
Take care to keep the system tight when installing. R-410A contains no chlorine, does not destroy the ozone layer and so does not reduce the earth's protection against harmful ultraviolet radiation. R-410A will contribute only slightly to the greenhouse effect if released into the atmosphere.

[DESIGN PRESSURE]

Since design pressure is 4.0 MPa or 40 bar (for R407C units : 3.3 MPa or 33 bar) the thickness of pipes must be greater than previously. Since R-410A is a mixed refrigerant, the required additional refrigerant must be charged in its liquid state. (If the system is charged with refrigerant in its gaseous state, due to compositions change, the system will not function normally). The indoor units is designed for R-410A use. See the catalogue for indoor unit models that can be connected. (Normal operation is not possible when connecting units that are originally designed for other refrigerants)

2.3 Disposal requirements

Dismantling of the unit, treatment of the refrigerant, of oil and of other parts must be done in accordance with relevant local and national legislation.

3. Introduction

3.1 General information

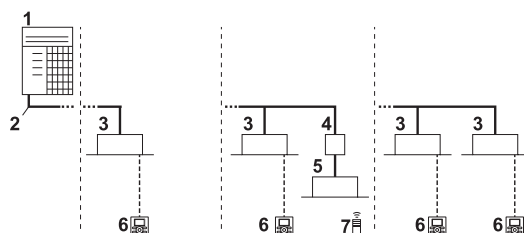
This installation manual concerns the VRV X, full inverter driven, cooling only system.

Depending on the type of outdoor unit which is chosen, some functionality will or will not exist. It will be indicated throughout this installation manual and brought to your attention. Certain features have exclusive model rights.

These units are intended for outdoor installation and aimed for cooling only applications including air to air applications.

These units have (in single use) cooling capacities rating from 16 to 45 kW. In multi combination cooling on go up till 135 kW.

The outdoor unit is designed to work in cooling mode at ambient temperatures from 10°C to 52°C.



- 1 VRV X Cooling only outdoor unit
- 2 Refrigerant piping
- 3 VRV indoor unit
- 4 BP unit (required to connect Residential Air (RA) indoor units)
- 5 Residential Air (RA) indoor units
- 6 User interface (dedicated depending on indoor unit type)
- 7 User interface (wireless, dedicated depending on indoor unit type)

3.2 Combination

The indoor units can be installed in the following range.

(Outdoor unit)	(Combination)	(Total capacity of indoor units)
RXQ6A	Single unit	75 ~ 195
RXQ8A	Single unit	100 ~ 260
RXQ10A	Single unit	125 ~ 325
RXQ12A/AN	Single unit/Multi	150 ~ 390
RXQ14A/AN	Single unit/Multi	175 ~ 455
RXQ16A/AN	Single unit/Multi	200 ~ 520
RXQ18AN	Multi unit	225 ~ 585
RXQ20AN	Multi unit	250 ~ 650
RXQ22AN	Multi unit	275 ~ 715
RXQ24AN	Multi unit	300 ~ 780
RXQ26AN	Multi unit	325 ~ 845
RXQ28AN	Multi unit	350 ~ 910
RXQ30AN	Multi unit	375 ~ 975
RXQ32AN	Multi unit	400 ~ 1,040
RXQ34AN	Multi unit	425 ~ 1,105
RXQ36AN	Multi unit	450 ~ 1,170
RXQ38AN	Multi unit	475 ~ 1,235
RXQ40AN	Multi unit	500 ~ 1,300
RXQ42AN	Multi unit	525 ~ 1,365
RXQ44AN	Multi unit	550 ~ 1,430
RXQ46AN	Multi unit	575 ~ 1,495
RXQ48AN	Multi unit	600 ~ 1,560

AN -> Standard model

Note

- Be sure to connect an R-410A indoor unit.
- See the catalog for indoor unit models which can be connected.
- Refer to the technical engineering data for multi unit combinations.

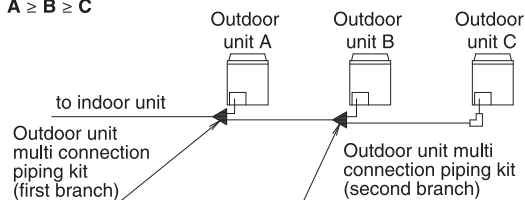


NOTICE

When selecting the total capacity higher than mentioned in above, cooling capacity will drop.
For additional information see technical engineering data.

- If the total capacity of the connected indoor units exceeds the capacity of the outdoor unit, cooling performance may drop when running the indoor units. See the capacity table in the Engineering Data Book for details.
- There are restrictions on the refrigerant pipe connecting order between outdoor unit in the case of the multi system. Install so that the following restrictions are satisfied.
<Restrictions>
The capacities of outdoor units A, B and C must fulfill the following conditions.

$$A \geq B \geq C$$



3.3 Scope of the manual

This manual describes the procedures for handling, installing and connecting the VRV X outdoor units. This manual has been prepared to ensure adequate maintenance of the unit, and it will provide help in case problems occur.

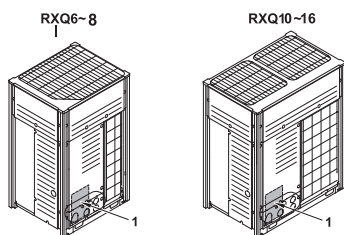


INFORMATION

The installation of the indoor unit(s) is described in the indoor unit installation manual provided with the indoor units.

4. Accessories

4.1 Accessories supplied with this unit



See location 1 in the figure above for reference to where following accessories are supplied with the unit.

Name	Tie wrap (1)	Tie wrap (2)	Tie wrap (3)	Gas accessory pipe (1)
Quantity	9 pcs.	1 pcs.	1 pc.	1 pc.
Shape	 Small		 Large	Front connection  

Name	Gas accessory pipe (2)	Liquid accessory pipe (1)	Liquid accessory pipe (2)	Others
Quantity	1 pc. Bottom connection	1 pc. Front connection	1 pc. Bottom connection	- Operation manual - Installation manual - Caution label (Addition refrigerant charge record)
Shape	 6-16 HP			

Note

^(a) For RXQ14~16, Front connection pipe require the combination of gas accessory pipe(1) and gas accessory pipe(2).

Do not leave any accessories supplied with this unit, until installation finished.

4.2 Optional accessory

To install the outdoor units, the following optional parts are also required. To select an optimum kit, refer to "9.3 Selection of refrigerant branch kits."

• Refrigerant branching kit

REFNET header	KHRP26M22H	KHRP26M33H	KHRP26M72H	KHRP26M73H
REFNET joint	KHRP26A22T6	KHRP26A33T6	KHRP26A72T6	KHRP26A73T6

• Outdoor unit multi connection piping kit

Number of outdoor units connected	2 units	3 units
Kit name	BHFP22P1006	BHFP22P1516

• Pipe size reducer

Kit name	KHRP26M73TP	KHRP26M73HP
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• Refnet Flare Header

Kit name	BHF8RH6	BHF10RH6	BHF12RH6
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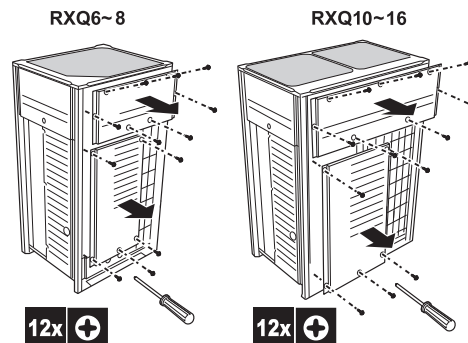
Note

Make sure that any separate purchased accessories are designed for use with R-410A.

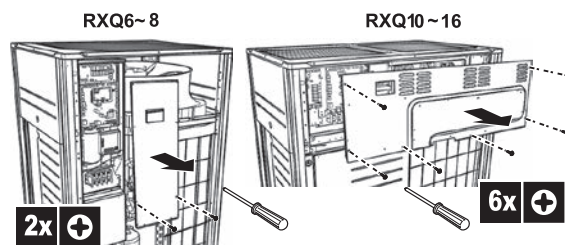
5. Overview of unit

5.1 Opening the unit

To gain access to the unit, front plates need to be opened as follows:



Once the front plates open, the electrical component box can be accessed by removing the electrical component box cover as follows.



For service purposes, the push buttons on the main PCB need to be accessed. To access these push buttons, the electrical component box cover does not need to be opened. See "13. Making field settings".



DANGER: Electrical shock

See "2. General safety precautions".

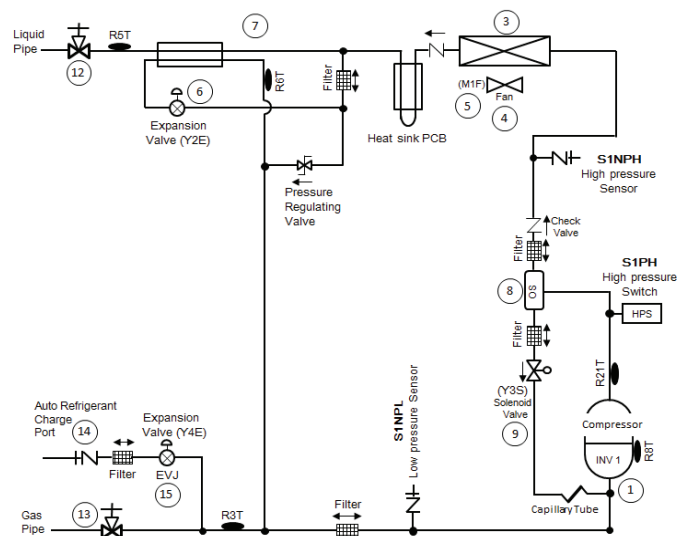


DANGER: Do not touch piping and internal parts.

See "2. General safety precautions".

5.2.1 RXQ (6~ 8 HP)

Piping diagram



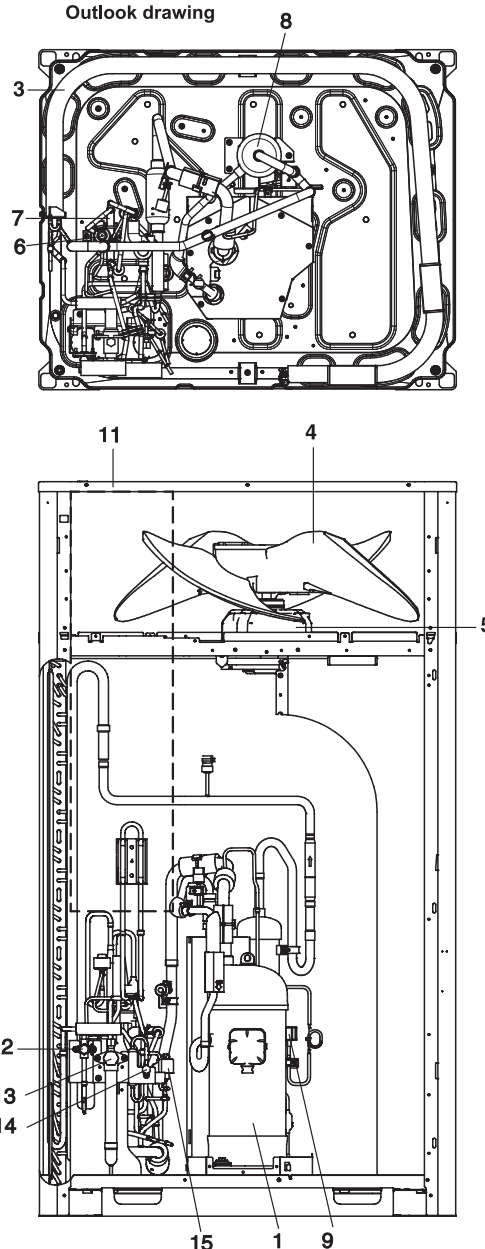
5.2 Main components in the unit

For all the models a piping diagram and outlook drawing are available. Depending on the model type some components in the main component list may not be existing in the unit.

Main components (see 5.2.1, 5.2.2, 5.2.3)

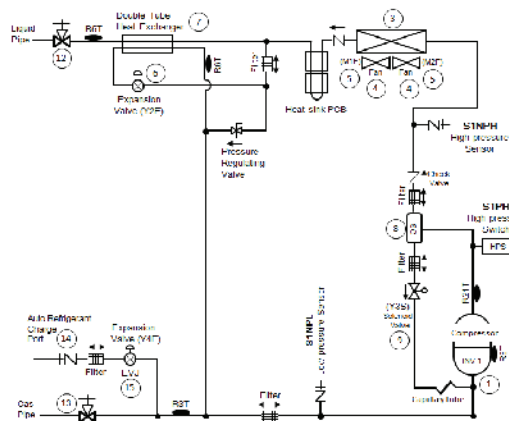
- 1 Compressor (M1C)
- 2 Compressor (M2C)
- 3 Heat exchanger
- 4 Fan
- 5 Fan motor (M1F, M2F)
- 6 Expansion valve, subcool heat exchanger (Y2E)
- 7 Subcool heat exchanger
- 8 Oil separator
- 9 Solenoid valve, oil separator 1 (Y3S)
- 10 Solenoid valve, oil separator 2 (Y4S)
- 11 Electrical component box
- 12 Stop valve, liquid
- 13 Stop valve, gas
- 14 Stop valve, refrigerant auto charge
- 15 Expansion valve, refrigerant auto charge (Y4E)

Outlook drawing

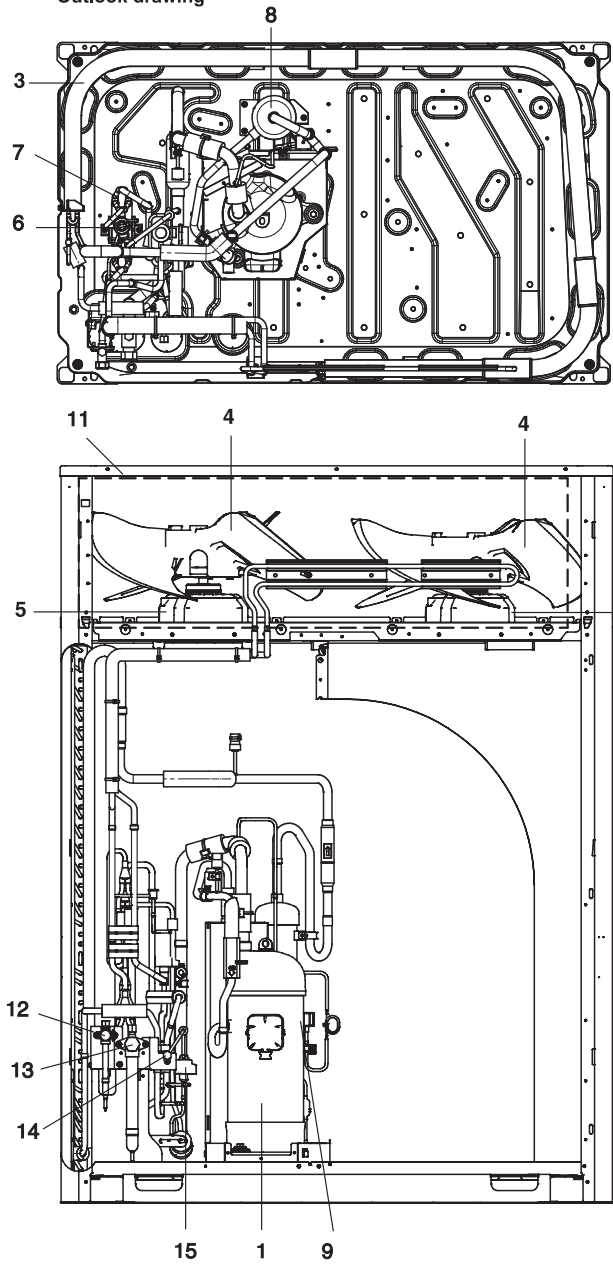


5.2.2 RXQ (10~12 HP)

Piping diagram

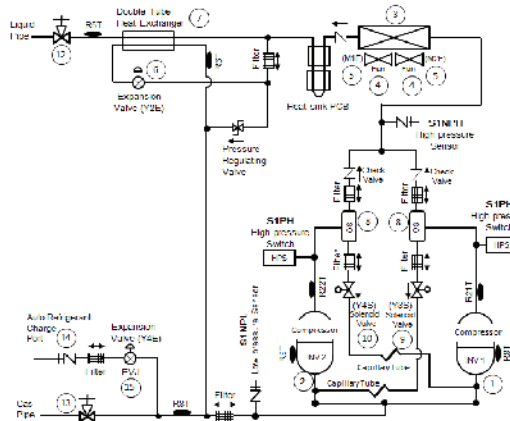


Outlook drawing

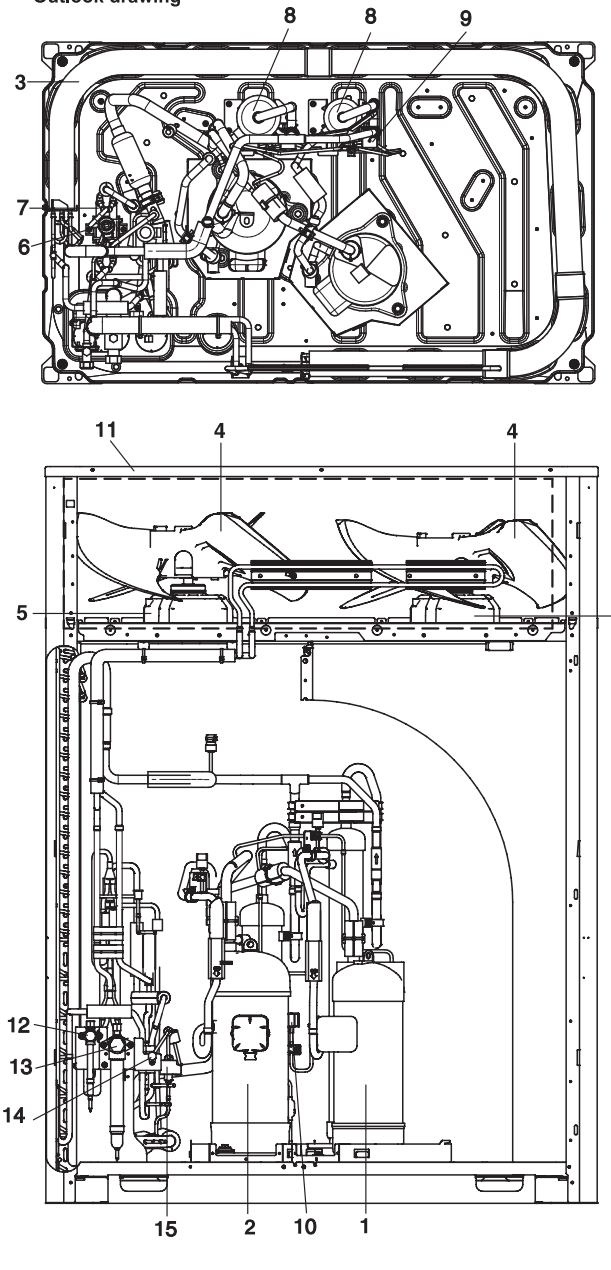


5.2.3 RXQ (14~16 HP)

Piping diagram

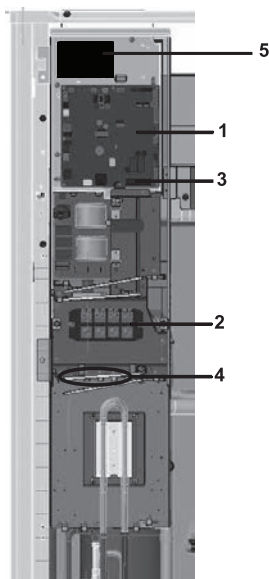


Outlook drawing

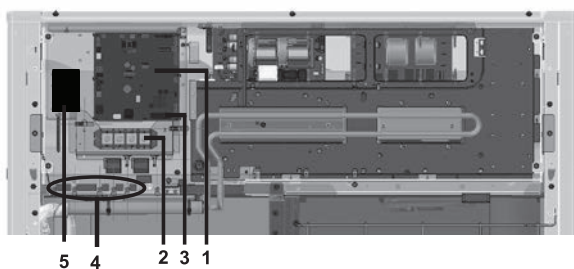


5.3 Main components in the electrical component box

RXQ6~8



RXQ10~16



- 1 Main PCB.
- 2 Terminal block X1M: main terminal block which allows easy connection of field wiring for power supply.
- 3 Terminal X1M on main PCB: terminal block for transmission wiring.
- 4 Cable tie mountings: the cable tie mountings allow to fix the field wiring with cable ties to the electrical component box to ensure strain relief.
- 5 Over voltage PCB.



INFORMATION

For more details refer to the wiring diagram of the units. The wiring diagram is located on the inside of the electrical component box.

6. Selecting an installation location



CAUTION

Appliance not accessible to the general public, install it in a secured area, protected from easy access.

This unit, both indoor and outdoor, is suitable for installation in a commercial and light industrial environment.

6.1 General precautions on installation

Select an installation site that meets the following requirements:

- The foundation must be strong enough to support the weight of the unit. The floor is flat to prevent vibrations and noise generation and to have sufficient stability.
- The space around the unit is adequate for maintenance and servicing. The space around the unit allows for sufficient air circulation.
- There is no danger of fire due to leakage of flammable gas.
- The equipment is not intended for use in a potentially explosive atmosphere.
- Select the location of the unit in such a way that the sound generated by the unit does not disturb anyone, and the location is selected according to the applicable legislation.
- All piping lengths and distances have been taken into consideration.
- Take care that in the event of a water leak, water cannot cause any damage to the installation space and surroundings.
- When installing the unit in a small room, take measures in order to keep the refrigerant concentration from exceeding allowable safety limits in the event of a refrigerant leak.



CAUTION

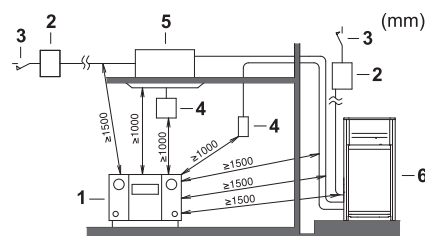
Excessive refrigerant concentrations in a closed room can lead to oxygen deficiency.



NOTICE

The equipment described in this manual may cause electronic noise generated from radio-frequency energy. The equipment complies to specifications that are designed to provide reasonable protection against such interference. However, there is no guarantee that interference will not occur in a particular installation.

It is therefore recommended to install the equipment and electric wires keeping proper distances away from stereo equipment, personal computers, etc.



- 1 Personal computer or radio
- 2 Fuse
- 3 Earth leakage protector
- 4 User interface
- 5 Indoor unit
- 6 Outdoor unit

In places with weak reception, keep distances of 3 m or more to avoid electromagnetic disturbance of other equipment and use conduit tubes for power and transmission lines.

- The refrigerant R-410A itself is nontoxic, non-flammable and is safe. If the refrigerant leak however, its concentration may exceed the allowable limit depending on room size. Due to this, it could be necessary to take measures against leakage. (See "18. Caution for refrigerant leaks").
- Do not install in the following locations:
 - Locations where sulphurous acids and other corrosive gases may be present in the atmosphere. Copper piping and soldered joints may corrode, causing refrigerant to leak.
 - Locations where a mineral oil mist, spray or vapour may be present in the atmosphere. Plastic parts may deteriorate and fall off or cause water leakage.
 - Locations where equipment that produces electromagnetic waves is found. The electromagnetic waves may cause the control system to malfunction, preventing normal operation.
 - Locations where flammable gases may leak, where thinner, gasoline and other volatile substances are handled, or where carbon dust and other incendiary substances are found in the atmosphere. Leaked gas may accumulate around the unit, causing an explosion.
- When installing, take strong winds, typhoons or earthquakes into account, improper installation may result in the unit turning over.

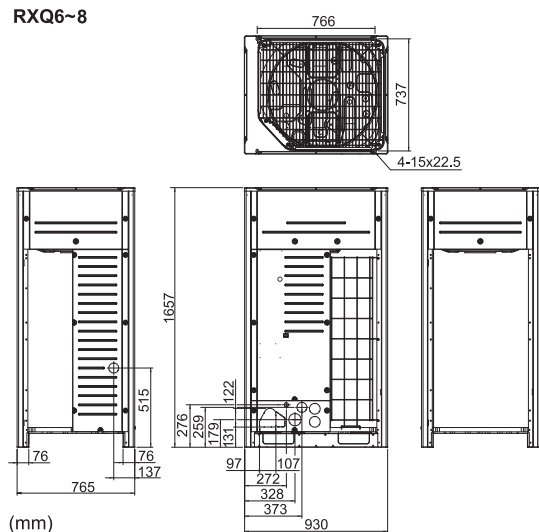
6.2 Weather related precautions

- Select a place where the rain can be avoided as much as possible.
- Be sure that the air inlet of the unit is not positioned towards the main wind direction. Frontal wind will disturb the operation of the unit. If necessary, use a screen to block the wind.
- Ensure that water cannot cause any damage to the location by adding water drains to the foundation and prevent water traps in the construction.
- Do not install the unit in areas where the air contains high levels of salt such as that near the ocean.

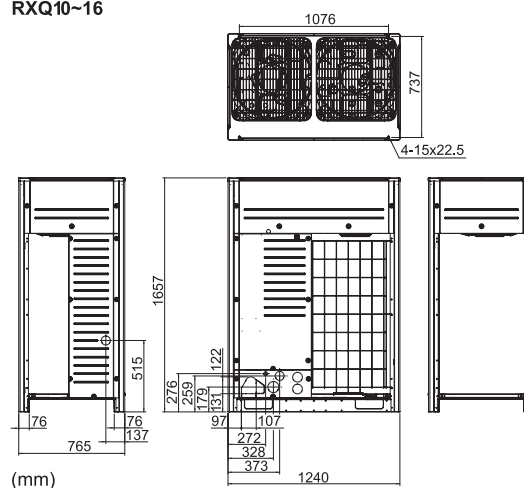
7. Dimensions and service space

7.1 Dimensions of outdoor unit

RXQ6~8

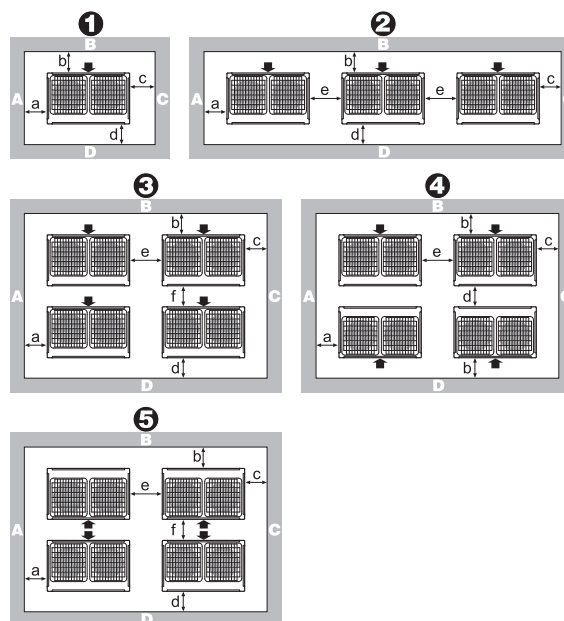


RXQ10~16

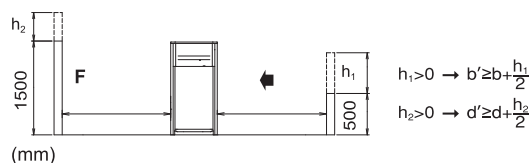


7.2 Service space

The space around the unit is adequate for servicing and the minimum space for air inlet and air outlet is available (refer to the figure below and choose one of the possibilities).



	A+B+C+D	A+B
①	a≥10 mm b≥300 mm c≥10 mm d≥500 mm	a≥200 mm b≥300 mm
②	a≥10 mm b≥300 mm c≥10 mm d≥500 mm e≥20 mm	a≥200 mm b≥300 mm e≥400 mm
③	a≥10 mm b≥300 mm c≥10 mm d≥500 mm e≥20 mm f≥600 mm	a≥50 mm b≥100 mm c≥50 mm d≥500 mm e≥100 mm f≥500 mm
④	a≥10 mm b≥300 mm c≥10 mm d≥500 mm e≥20 mm	a≥50 mm b≥100 mm c≥50 mm d≥500 mm e≥100 mm
⑤	a≥10 mm b≥500 mm c≥10 mm d≥500 mm e≥20 mm f≥900 mm	a≥50 mm b≥500 mm c≥50 mm d≥500 mm e≥100 mm f≥600 mm



ABCD Sides along the installation site with obstacles

F Front side

➡ Suction side

- In case of an installation site where sides A+B+C+D have obstacles, the wall heights of sides A+C have no impact on service space dimensions. Refer to the figure above for impact of wall heights of sides B+D on service space dimensions, calculate new b,d by refer above formulars.
- In case of an installation site where only the sides A+B have obstacles, the wall heights have no influence on any indicated service space dimensions.



INFORMATION

- The service space dimensions in above figure are based on cooling operation at 35°C ambient temperature (standard conditions).
- Further specifications can be found in the technical engineering data.

8. Inspecting and handling the unit

8.1 Inspection

At delivery, the unit must be checked and any damage must be reported immediately to the carrier's claims agent.

8.2 Handling

- When handling the unit, take into account the following:

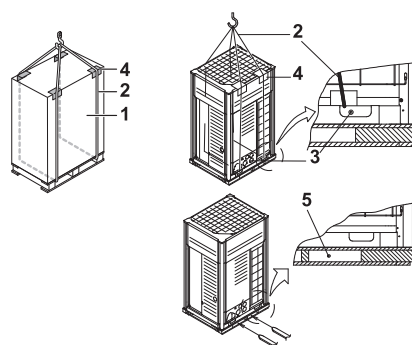


Fragile, handle the unit with care.



Keep the unit upright in order to avoid compressor damage.

- Choose on beforehand the path along which the unit is to be brought in.
- Bring the unit as close as possible to its final installation position in its original package to prevent damage during transport.



- Packaging material
- Belt sling
- Product opening
- Protector
- Skid base opening

- If use a forklift, insert the forks into the opening (large) of skid base.
- Lift the unit preferably with a crane and 2 belts of at least 8 m long as shown in the figure above. Always use protectors to prevent belt damage and pay attention to the position of the unit's centre of gravity.

A forklift can only be used for transport as long as the unit remains on its pallet as shown above.

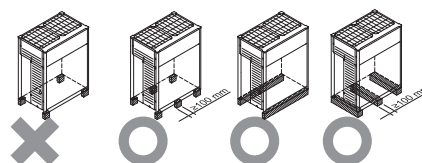
8.3 Installing the unit

Make sure the unit is installed level on a sufficiently strong base to prevent vibration and noise.



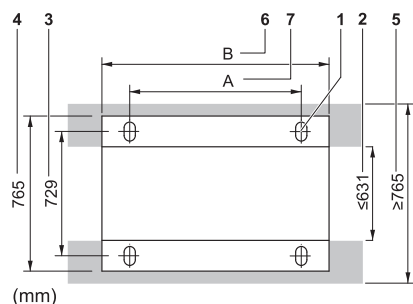
NOTICE

When the installation height of the unit needs to be increased, do not use stands, only support the corners.



- X Not allowed
O Allowed

- The height of the foundation must at least be 150 mm from the floor.
- The unit must be installed on a solid longitudinal foundation (steel beam frame or concrete) and make sure the base under the unit is larger than the grey marked area.

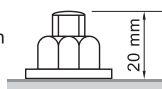


(mm)

- 1 Hole for foundation bolt (Ø15 dia. : 4 positions)
- 2 Inner dimension of the base
- 3 Distance between foundation bolt holes
- 4 Depth of unit
- 5 Outer dimension of the base
- 6 Longitudinal foundation dimension
- 7 Distance between foundation bolt holes

Model	A	B
6·8 HP type	766	930
10.12.14.16 HP type	1076	1240

- Fasten the unit in place using four foundation bolts M12. It is best to screw in the foundation bolts until their length remains 20mm above the foundation surface.

**NOTICE**

- When installed in a corrosive environment, use a nut with plastic washer to protect the nut tightening part from rust.



Plastic washer

9. Refrigerant pipe size and allowable pipe length

9.1 Selection of piping material

**NOTICE**

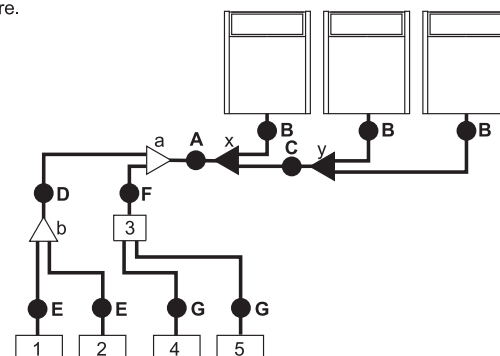
- Jointless phosphor-deoxidized copper pipe
- Select a thickness for the refrigerant piping which complies with national and local laws.
- Installation shall be done by a licensed installer, the choice of materials and installation shall conform completely with the applicable national and international codes.

- Foreign materials inside pipes (including oils for fabrication) must be ≤30 mg/10 m.
- Temper grade: use piping with temper grade in function of the pipe diameter as listed in table below.

Pipe Ø (mm)	Temper grade of piping material
≤15.9 (5/8")	O (annealed)
≥19.1 (3/4")	1/2H (half hard)

9.2 Selection of piping size

Determine the proper size referring to following tables and reference figure.



- 1,2 VRV indoor unit
 3 BP box
 4,5 RA indoor unit
 a,b Indoor branch kit
 x,y Outdoor multi connection kit

9.2.1 Piping between outdoor unit and (first) refrigerant branch kit: A, B, C

Choose from the following table in accordance with the outdoor unit total capacity type, connected downstream.

Outdoor unit capacity type (HP)	Piping outer diameter size (mm)	
	Gas pipe	Liquid pipe
6~8	Ø 19.1 (3/4")	Ø 9.5 (3/8")
10	Ø 22.2 (7/8")	
12~16	Ø 28.6 (1 1/8")	Ø 12.7 (1/2")
18~22		Ø 15.9 (5/8")
24	Ø 34.9 (1 3/8")	Ø 19.1 (3/4")
26~34		
36~48	Ø 41.3 (1 5/8")	

9.2.2 Piping between refrigerant branch kits: D

Choose from the following table in accordance with the indoor unit total capacity type, connected downstream. Do not let the connection piping exceed the refrigerant piping size chosen by the general system model name.

Indoor unit capacity index	Piping outer diameter size (mm)	
	Gas pipe	Liquid pipe
<150	Ø 15.9 (5/8")	Ø 9.5 (3/8")
150≤x<200	Ø 19.1 (3/4")	
200≤x<290	Ø 22.2 (7/8")	
290≤x<420	Ø 28.6 (1 1/8")	Ø 12.7 (1/2")
420≤x<640		Ø 15.9 (5/8")
640≤x<920	Ø 34.9 (1 3/8")	Ø 19.1 (3/4")
≥920	Ø 41.3 (1 5/8")	

Example:

Downstream capacity for E=capacity index of unit 1
 Downstream capacity for D=capacity index of unit 1+capacity index of unit 2

9.2.3 Piping between refrigerant branch kit and BP unit: F

Pipe size for direct connection on BP unit must be based on the total capacity of the connected indoor units (only in case RA indoor units are connected).

Total capacity index of connected indoor units	Gas pipe (mm)	Liquid pipe (mm)
20-62	Ø 12.7 (1/2")	Ø 6.4 (1/4")
63-149	Ø 15.9 (5/8")	Ø 9.5 (3/8")
150-208	Ø 19.1 (3/4")	
~250	Ø 22.2 (7/8")	

Example:

Downstream capacity for F=capacity index of unit 4+capacity index of unit 5

9.2.4 Piping between BP unit and RA indoor unit: G

Only in case RA indoor units are connected.

Indoor unit capacity index	Gas pipe (mm)	Liquid pipe (mm)
20, 25, 30, 35	Ø 9.5 (3/8")	Ø 6.4 (1/4")
50	Ø12.7 (1/2")	
60		Ø 9.5 (3/8")
71 ^(c)	Ø15.9 (5/8")	

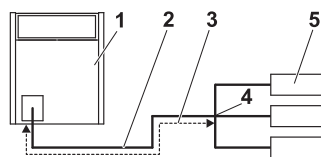
(c) In some indoor units, the piping size is difference.
Choose from the size of each indoor units.

9.2.5 Piping between refrigerant branch kit and indoor unit: E

Pipe size for direct connection to indoor unit must be the same as the connection size of the indoor unit (in case indoor unit is VRV Indoor).

Indoor unit capacity index	Piping outer diameter size (mm)	
	Gas pipe	Liquid pipe
20, 25, 32, 40, 50	Ø 12.7 (1/2")	Ø 6.4 (1/4")
63, 80, 100, 125, 140	Ø 15.9 (5/8")	Ø 9.5 (3/8")
200	Ø 19.1 (3/4")	
250	Ø 22.2 (7/8")	
400	Ø 28.6 (1 1/8")	
500		
		Ø 12.7 (1/2")
		Ø 15.9 (5/8")

- When the equivalent pipe length between outdoor and indoor units is 90 m or more, the size of the main pipes (both gas side and liquid side) must be increased. Depending on the length of the piping, the capacity may drop, but even in such a case it is possible to increase the size of the main pipes.



- 1 Outdoor unit
2 Main pipes
3 Increase
4 First refrigerant branch kit
5 Indoor unit

Size up		
HP Class	Gas side (mm)	Liquid size (mm)
6~8	Ø19.1 (3/4") → Ø22.2 (7/8")	Ø9.5 (3/8")→ Ø12.7 (1/2")
10	Ø22.2 (7/8") → Ø25.4 (1") ^(a)	
12~14	Ø28.6 (1 1/8") ^(b)	Ø12.7 (1/2")→Ø15.9 (5/8")
16	Ø28.6 (1 1/8") → Ø31.8 (1 1/4") ^(a)	
18~22		Ø15.9 (5/8")→Ø19.1 (3/4")
24	Ø34.9 (1 3/8") ^(b)	
26~34	Ø34.9 (1 3/8") → Ø38.1 (1 1/2") ^(a)	Ø19.1 (3/4")→Ø22.2 (7/8")
36~48	Ø41.3 (1 5/8") ^(b)	

(a) If this pipe diameter is unobtainable on site, please do not size up a pipe diameter. (Without size up the pipe diameter, capacity will greatly decrease, but equivalent piping length can be extended up to 190m)

(b) Please use this pipe diameter only. (Without size up the pipe diameter, equivalent piping length can be extended up to 190m)

- The pipe thickness of the refrigerant piping shall comply with the applicable legislation. The minimal pipe thickness for R-410A piping must be in accordance with the table.

Pipe Ø (mm)	Minimal thickness t (mm)
Ø 6.4 (1/4")	0.80
Ø 9.5 (3/8")	
Ø 12.7 (1/2")	
Ø 15.9 (5/8")	0.99
Ø 19.1 (3/4")	0.80
Ø 22.2 (7/8")	
Ø 25.4 (1")	0.88
Ø 28.6 (1 1/8")	0.99
Ø 31.8 (1 1/4")	1.10
Ø 34.9 (1 3/8")	1.21
Ø 38.1 (1 1/2")	1.32
Ø 41.3 (1 5/8")	1.43

In this case, the additional refrigerant calculation has to be adjusted as mentioned in "14. Charging refrigerant".

9.3 Selection of refrigerant branch kits

Refrigerant REFNETS

For piping example, refer to "9.2. Selection of piping size".

- When using REFNET joints at the first branch counted from the outdoor unit side, choose from the following table in accordance with the capacity of the outdoor unit (example: REFNET joint a).

Outdoor unit capacity type (HP)	Model refrigerant branch kits
6~8	KHRP26A33T6
10~22	KHRP26A72T6
24~48	KHRP26A73T6 + KHRP26M73TP

- For REFNETS joints other than the first branch (example REFNET joint b), select the proper branch kit model based on the total capacity index of all indoor units connected after the refrigerant branch.

Indoor unit capacity index	Model refrigerant branch kits
<200	KHRP26A22T6
200≤x<290	KHRP26A33T6
290≤x<640	KHRP26A72T6
≥640	KHRP26A73T6 + KHRP26M73TP

- Concerning REFNET headers, choose from the following table in accordance with the total capacity of all the indoor units connected below the REFNET header.

Indoor unit capacity index	Model refrigerant branch kits
<200	KHRP26M22H
200≤x<290	KHRP26M33H
290≤x<640	KHRP26M72H ^(a)
≥640	KHRP26M73H+ KHRP26M73HP

(a) If the pipe size above the REFNET header is Ø 34.9 or more, KHRP26M73HP is required.



INFORMATION

Maximum 8 branches can be connected to a header.

- How to choose an outdoor multi connection piping kit. Choose from the following table in accordance with the number of outdoor units.

Number of outdoor units	Branch kit name
2	BHFP22P1006
3	BHFP22P1516



NOTICE

Refrigerant branch kits can only be used with R-410A.

9.4 System piping (length) limitations

9.4.1 Piping length restrictions

Make sure to perform the piping installation within the range of the maximum allowable pipe length, allowable level difference and allowable length after branching as indicated below. The pattern will be discussed, including VRV indoor units combined with RA indoor units.

Definitions

Actual piping length: pipe length between outdoor⁽¹⁾ and indoor units.

Equivalent piping length⁽²⁾ : pipe length between outdoor⁽¹⁾ and indoor units.

Total piping length: total piping length from the outdoor⁽¹⁾ to all indoor units.

Difference in height between outdoor and indoor units: H1.

Difference in height between indoor and indoor units: H2.

Difference in height between outdoor and outdoor units: H3.

Difference in height between outdoor and BP unit: H4.

Difference in height between BP unit and BP unit: H5.

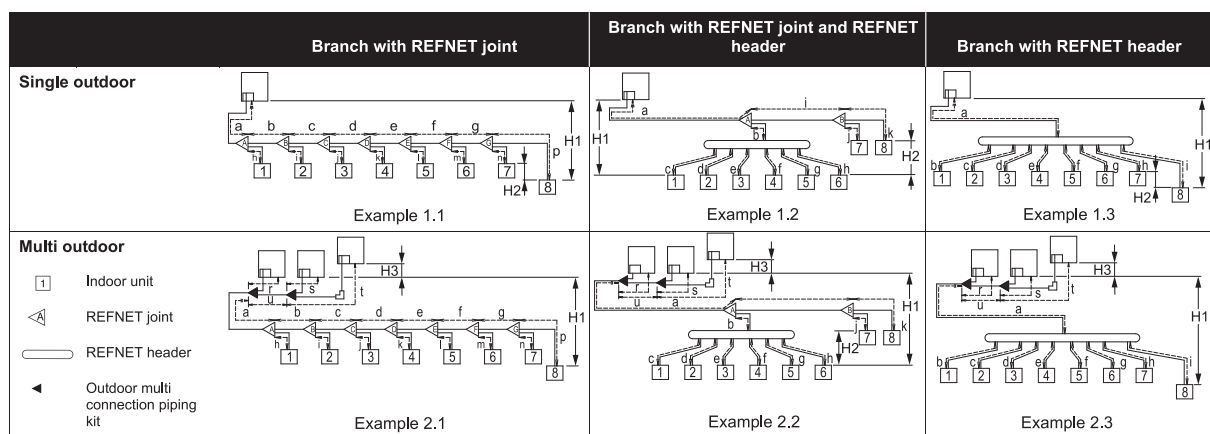
Difference in height between BP unit and RA indoor unit: H6.

(1) In case of multi outdoor system, re-read to the first outdoor unit multi connection piping kit as seen from the indoor unit.

(2) Assume equivalent piping length of REFNET joint=0.5 m and REFNET header=1 m (for calculation purposes).

9.4.2 System only containing VRV indoor units

System setup



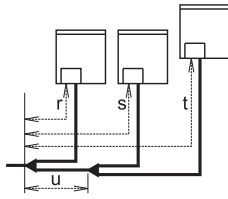
Maximum allowable length

- Between outdoor and indoor units (refer the recommend combination type in Engineering data book).

		Example 1.1	Example 1.2	Example 1.3
Actual piping length	165 m	unit 8: a+b+c+d+e+f+g+p≤165 m	unit 6: a+b+h≤165 m unit 8: a+i+k≤165 m	unit 8: a+i≤165 m
Equivalent length ⁽²⁾	190 m	—	—	—
Total piping length	1000 m	a+b+c+d+e+f+g+h+i+j+k+l+m+n+p≤1000 m	—	—

- Between outdoor and indoor units (free multi combinations).

		Example 2.1	Example 2.2	Example 2.3
Actual piping length	135 m	unit 8: a+b+c+d+e+f+g+p≤135 m	unit 6: a+b+h≤135 m unit 8: a+i+k≤135 m	unit 8: a+i≤135 m
Equivalent length ⁽²⁾	160 m	—	—	—
Total piping length	500 m	a+b+c+d+e+f+g+h+i+j+k+l+m+n+p≤500 m	—	—

Example 3 : with standard multi layout

- Between outdoor branch and outdoor unit.

Actual piping length	10 m	<u>Example 3</u> r, s, t ≤ 10 m; u ≤ 5 m
Equivalent length	13 m	—

Maximum allowable height difference

H1	≤ 50 m
H2	≤ 30 m
H3	≤ 5 m

In case the outdoor location is lower than indoor: extension is possible up till 90 m and following 1 condition must be fulfilled:

- Liquid piping size up (see table "Size up").

Maximum allowable length after branch

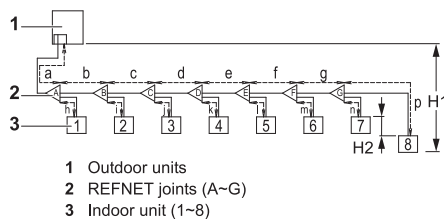
The pipe length from the first refrigerant branch kit to the indoor unit ≤ 40 m.

Example 1.1: unit 8: $b+c+d+e+f+g+p \leq 40$ m

Example 1.2: unit 6: $b+h \leq 40$ m, unit 8: $i+k \leq 40$ m

Example 1.3: unit 8: $i \leq 40$ m

However, extension is possible if all below conditions are met. In this case limitation can be extended up to 90 m.



- a. The piping length between all indoor to the nearest branch kit is ≤ 40 m.

Example: h, i, j ... $p \leq 40$ m

- b. It is necessary to increase the pipe size of the gas and liquid piping if the pipe length between the first branch kit and the farthest indoor unit is over 40 m.

If the increased pipe size is larger than the pipe size of the main pipe, then the pipe size of the main pipe has to be increased as well.

Increase the pipe size as follows:

$9.5 \rightarrow 12.7$; $12.7 \rightarrow 15.9$; $15.9 \rightarrow 19.1$; $19.1 \rightarrow 22.2$; $22.2 \rightarrow 25.4^{(3)}$; $25.4 \rightarrow 28.6$; $28.6 \rightarrow 31.8^{(3)}$; $31.8 \rightarrow 34.9$; $34.9 \rightarrow 38.1^{(3)}$

Example: unit 8: $b+c+d+e+f+g+p \leq 90$ m; increase the pipe size of b, c, d, e, f, g.

(3) If this pipe diameter is unobtainable on site, the piping length limitation cannot be extended.

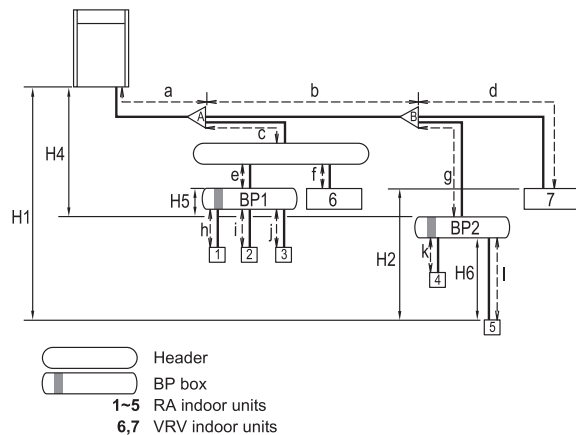
- c. When the piping size is increased (step b), the piping length has to be counted as double (except for the main pipe and the pipes that are not increased in pipe size). The total piping length has to be within limitations (see table above).

Example:

$a+b*2+c*2+d*2+e*2+f*2+g*2+h+i+j+k+l+m+n+p \leq 1000$ m (500 m).

- d. The piping length difference between the nearest indoor from first branch to the outdoor unit and farthest indoor to the outdoor unit is ≤ 40 m.

Example: The farthest indoor unit 8. The nearest indoor unit 1 → $(a+b+c+d+e+f+g+p)-(a+h) \leq 40$ m.

9.4.3 System containing VRV indoor units and RA indoor units**System setup****Maximum allowable length**

- Between outdoor unit and indoor unit.

Actual piping length	100 m	<u>Example:</u> $a+b+g+i \leq 100$ m
Equivalent length ^(a)	120 m	—
Total piping length	250 m	<u>Example:</u> $a+b+d+g+i+k+c+e+f+h+i+j \leq 250$ m

(a) Assume equivalent piping length of REFNET joint=0.5 m and REFNET header=1 m (for calculation purposes).

- Between BP unit and indoor unit.

Indoor unit capacity index	Pipe length
<60	2~15 m
60	2~12 m
71	2~8 m

Remark: **Minimum allowable length** between outdoor unit and first refrigerant branch kit > 5 m (the refrigerant noise from the outdoor unit can be transmitted).

Example: $a > 5$ m

Maximum allowable height difference

H1	≤ 50 m (40 m) (if outdoor is located below indoor units)
H2	≤ 15 m
H4	≤ 40 m
H5	≤ 15 m
H6	≤ 5 m

Maximum allowable length after branch

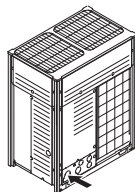
The pipe length from the first refrigerant branch kit to the indoor unit ≤ 50 m.

Example: $b+g+l \leq 50$ m

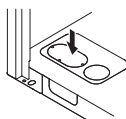
If the piping length between the first branch and BP unit or VRV indoor unit is over 20m, it is necessary to increase the gas and liquid piping size between the first branch and BP unit or VRV indoor unit. If the piping diameter of the sized up piping exceeds the diameter of the piping before the first branch kit, then the latter also requires a liquid piping and gas piping size up.

9.5 Multi system piping installation

- **Front connection**
Remove the front plate knock out holes to connect (see figure below).



- **Bottom connection**
Remove the knock out holes on the bottom frame and route the piping under the bottom frame (see figure below).



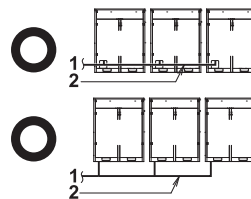
9.5.1 Precautions when connecting piping between outdoor units (multiple outdoor unit system)

- To connect the piping between outdoor units, an optional multi connection piping kit BHFP22P1006/1516 is always required. When installing the piping, follow the instructions in the installation manual that comes with the kit.
- Only proceed with piping work after considering the limitations on installing listed here and in the chapter "10.2. Connecting the refrigerant piping" always referring to the installation manual delivered with the kit.

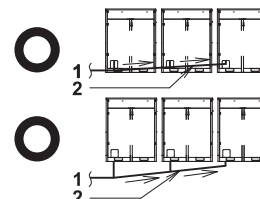
9.5.2 Possible installation patterns and configurations

- The piping between the outdoor units must be routed level or slightly upward to avoid the risk of oil retention into the piping.

Pattern 1

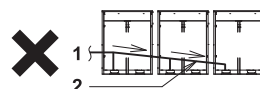
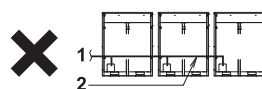


Pattern 2



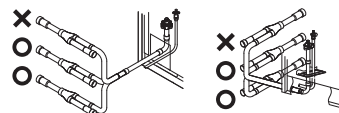
- 1 To indoor unit
2 Piping between outdoor units

Prohibited patterns: change to pattern 1 or 2.

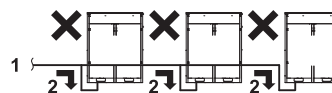
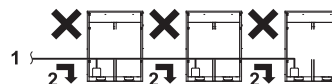


- 1 To indoor unit
2 Piping between outdoor units

- To avoid the risk of oil retention to the outmost outdoor unit, always connect the stop valve and the piping between outdoor units as shown in the 4 correct possibilities of the figure below.

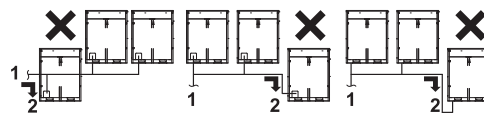


Prohibited patterns: change to pattern 1 or 2.

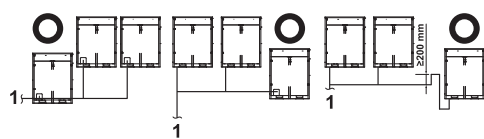


- 1 To indoor unit
2 Oil collects to the outmost outdoor unit

Change to configuration as in figures below

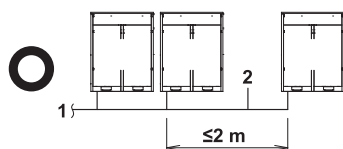


- 1 To indoor unit
2 Oil collects to the outmost outdoor unit when the system stops

Correct configuration

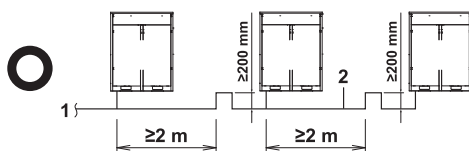
1 To indoor unit

- If the piping length between the outdoor units exceeds 2m, create a rise of 200mm or more in the gas line within a length of 2m from the kit.

If ≤ 2 m

1 To indoor unit

2 Piping between outdoor units

If > 2 m

1 To indoor unit

2 Piping between outdoor units

10. Precautions on refrigerant piping

- Do not allow anything other than the designated refrigerant to get mixed into the refrigerant cycle, such as air, nitrogen, etc. If any refrigerant gas leaks while working on the unit, ventilate the room thoroughly right away.
- Use R-410A only when adding refrigerant
- Installation tools:
Make sure to use installation tools (gauge manifold, charge hose, etc.) that are exclusively used for R-410A installations to withstand the pressure and to prevent foreign materials (e.g., mineral oils and moisture) from mixing into the system.
- Vacuum pump:
 - Use a 2-stage vacuum pump with a non-return valve.
 - Make sure the pump oil does not flow oppositely into the system while the pump is not working.
 - Use a vacuum pump which can evacuate to -100.7 kPa (5Torr, -755 mm Hg).

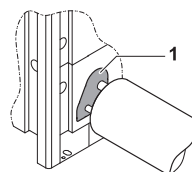
Protection against contamination when installing pipes

Take measures to prevent foreign materials like moisture and contamination from mixing into the system.

Place	Installation period	Protection method
	More than a month	Pinch the pipe
	Less than a month	
	Regardless of the period	Pinch or tape the pipe

Block all gaps in the holes for passing out piping and wiring using sealing material (field supply) (the capacity of the unit will drop and small animals may enter the machine).

Example: passing piping out through the front.



- 1 Close the areas marked with "■". (When the piping is routed from the front panel.)

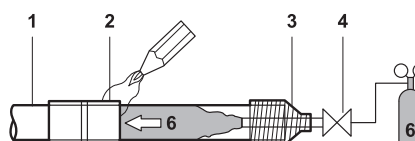
- Use clean pipes only.
- Hold the pipe end downwards when removing burrs.
- Cover the pipe end when inserting it through a wall so that no dust or dirt enters the pipe.

**NOTICE**

After all the piping has been connected, make sure there is no gas leak. Use nitrogen to perform a gas leak detection.

10.1 Caution for brazing

- Make sure to blow through with nitrogen when brazing. Blowing through with nitrogen prevents the creation of large quantities of oxidized film on the inside of the piping. An oxidized film adversely affects valves and compressors in the refrigerating system and prevents proper operation.
- The nitrogen pressure should be set to 0.02 MPa (i.e., just enough so it can be felt on the skin) with a pressure-reducing valve.



- 1 Refrigerant piping
- 2 Part to be brazed
- 3 Taping
- 4 Handy valve
- 5 Pressure-reducing valve
- 6 Nitrogen

Do not use anti-oxidants when brazing the pipe joints. Residue can clog pipes and break equipment:

- Do not use flux when brazing copper-to-copper refrigerant piping. Use phosphor copper brazing filler alloy (BCuP) which does not require flux.
- Flux has an extremely harmful influence on refrigerant piping systems. For instance, if chlorine based flux is used, it will cause pipe corrosion or, in particular, if the flux contains fluorine, it will deteriorate the refrigerant oil.

10.2 Connecting the refrigerant piping

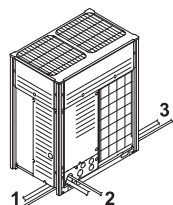


NOTICE

Installation shall be done by an installer, the choice of materials and installation shall comply with the applicable legislation.

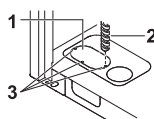
10.2.1 Decide front or side (bottom) connection

Installation of refrigerant piping is possible as front connection or side connection (when taken out from the bottom) as shown in the figure below.



- 1 Left-side connection
- 2 Front connection
- 3 Right-side connection

For side connections, the knockout hole on the bottom plate should be removed:



- 1 Large knockout hole
- 2 Drill
- 3 Points for drilling



NOTICE

Precautions when knocking out knockout holes:

- Be sure to avoid damaging the casing.
- After knocking out the knockout holes, we recommend you remove the burrs and paint the edges and areas around the edges using repair paint to prevent rusting.



- When passing electrical wiring through the knockout holes, wrap the wiring with protective tape to prevent damage as shown above.

10.2.2 Remove Sealed rubber plug

- When connecting refrigerant piping to an outdoor unit, remove the sealed rubber plug. (Refer to figure shown in below)
- Sealed rubber plug should be removed using the below procedure.

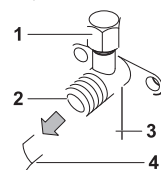
(Refer to figure shown in below)

1. Shutoff valve (liquid side · gas side)
2. Service port
3. Sealed rubber plug
4. Procedure 1:
Confirm the shutoff valve is closed.
5. Procedure 2:
Connect a charge hose to the service port of the liquid side and gas side shutoff valves and remove the gas from the pipe.



Procedure 1

Use the following procedure to remove the sealed rubber plug:
Remove the valve cover and make sure that the stop valves are fully closed.

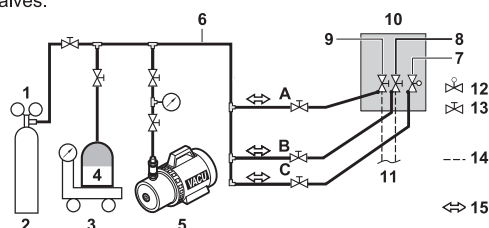


- 1 Service port and service port cover
- 2 Stop valve
- 3 Field piping connection pipe
- 4 Stop valve cover



Procedure 2

- 1 Connect the vacuuming/recovery unit to service ports of all stop valves.



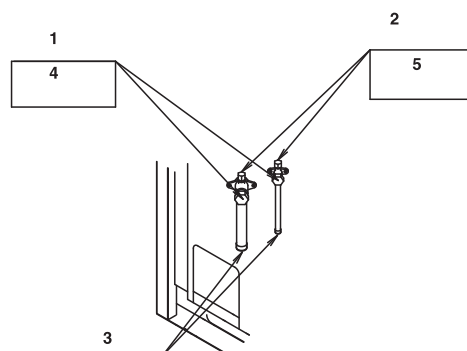
- | | |
|---|-------------------|
| 1 Pressure reducing valve | 10 Outdoor unit |
| 2 Nitrogen | 11 To indoor unit |
| 3 Measuring instrument | 12 Needle valve |
| 4 Refrigerant R-410A tank (siphon system) | 13 Stop valve |
| 5 Vacuum pump | 14 Field piping |
| 6 Charge hose | 15 Gas flow |
| 7 Refrigerant auto charge valve | A Valve A |
| 8 Gas pipe stop valve | B Valve B |
| 9 Liquid pipe stop valve | C Valve C |

- 2 Recover gas and oil from the sealed rubber plug pipe by using a recovery unit.
- 3 When all gas and oil is recovered from the sealed rubber plug pipe, disconnect the charge hose and close the service ports.
- 4 Now remove the sealed rubber plug with the help of nose plier/ suitable instrument



CAUTION

Do not vent gases into the atmosphere.



10.2.3 Connecting refrigerant piping to the outdoor unit



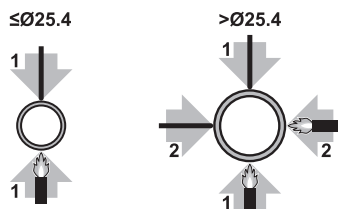
INFORMATION

All local inter unit piping are field supplied except the accessory pipes.



NOTICE

Precautions when connecting field piping. Add brazing material as shown in the figure.



NOTICE

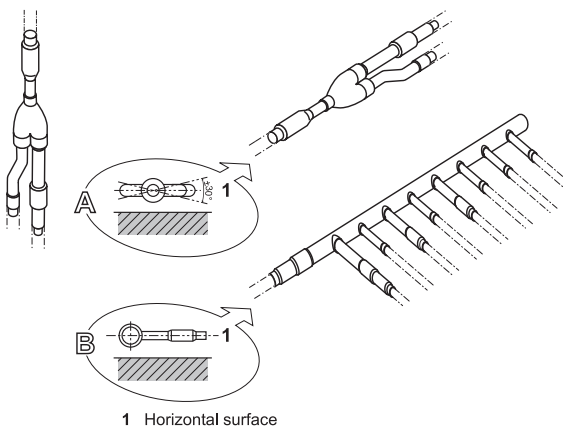
- Be sure to use the supplied accessory pipes when carrying out piping work in the field.
- Be sure that the field installed piping does not touch other pipes, the bottom panel or side panel. Especially for the bottom and side connection, be sure to protect the piping with suitable insulation, to prevent it from coming into contact with the casing.

Connection from the stop valves to the field piping can be done by using accessory pipes supplied as accessory.

The connections to the branch kits are the responsibility of the installer (field piping).

10.2.4 Branching the refrigerant piping

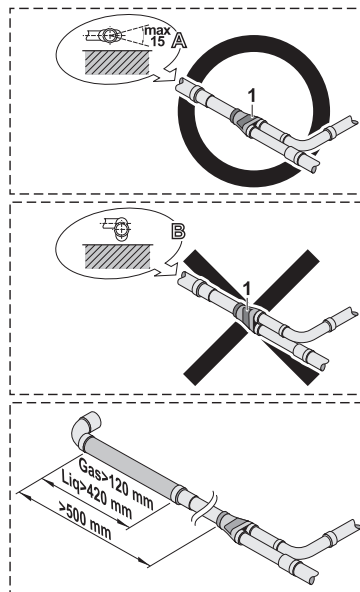
- For installation of the refrigerant branching kit, refer to the installation manual delivered with the kit.



1 Horizontal surface

- 1 Mount the REFNET joint so that it branches either horizontally or vertically.
- 2 Mount the REFNET header so that it branches horizontally.

Installation of the multi connection piping kit.

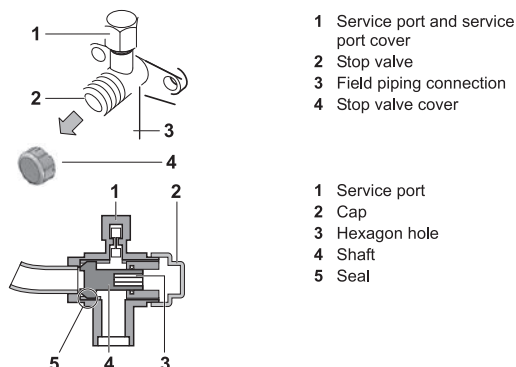


- 1 Install the joints horizontally, so that the caution label (1) attached to the joint comes to the top.
 - Do not tilt the joint more than 15° (see view A).
 - Do not install the joint vertically (see view B).
- 2 Make sure that the total length of the piping connected to the joint is absolute straight for more than 500 mm. Only if a straight field pipe length.
 - Gas field pipe length > 120 mm.
 - Liquid field pipe length > 420 mm.
- 3 Improper installation may lead to malfunction of the outdoor unit.

10.3 Guidelines for handling stop valve

10.3.1 Cautions on handling the stop valve

- Make sure to keep both stop valves open during operation.
- The figure below shows the name of each part required in handling the stop valve.
- The stop valve is factory closed.

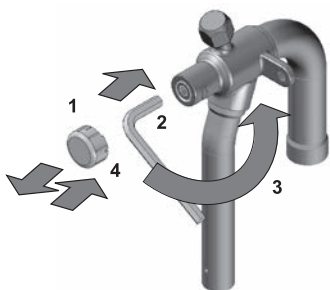


10.3.2 How to use the stop valve

Opening the stop valve

- 1 Remove the valve cover.
- 2 Insert a hexagon wrench into the stop valve and turn the stop valve counterclockwise.
- 3 When the stop valve cannot be turned any further, stop turning. The valve is now open.
- 4 After finish work fix valve cover.

To fully open the $\varnothing 19.1$ or $\varnothing 25.4$ gas line stop valve, turn the hexagonal wrench until a torque between 27 and 33 N·m is achieved. Inadequate torque may cause leakage of refrigerant and breakage of the stop valve cap.

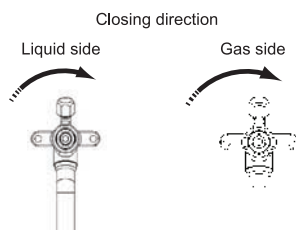


NOTICE

Pay attention that mentioned torque range is applicable for opening $\varnothing 19.1$ and $\varnothing 25.4$ gas line stop valves only.

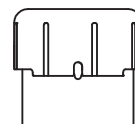
Closing the stop valve

- 1 Remove the valve cover.
- 2 Insert a hexagon wrench into the stop valve and turn the stop valve clockwise.
- 3 When the stop valve cannot be turned any further, stop turning. The valve is now closed.



10.3.3 Cautions on handling the stop valve cover

- The stop valve cover is fixed where indicated by the arrow. Take care not to damage it.
- After handling the stop valve, make sure to fix the stop valve cover securely.
- Check for refrigerant leaks after tightening the stop valve cover.



10.3.4 Cautions on handling the service port

- Always use a charge hose equipped with a valve depressor pin, since the service port is a Schrader type valve.
- After handling the service port, make sure to tighten the service port cover securely. For the tightening torque, refer to the table below.
- Check for refrigerant leaks after tightening the service port cover.

10.3.5 Tightening torques

[Tightening torque]

The sizes of the shutoff valves on each model and the tightening torque for each size are listed in the table below.

<Size of Shutoff Valve>

	6.8 HP type	10.12 HP Type	14~16HP type
Liquid side shutoff valve	$\varnothing 9.5$ The 12HP type corresponds to the 12.7-diameter onsite piping using the included piping.	$\varnothing 12.7$ The 18~20HP type corresponds to the 15.9-diameter onsite piping using the accessory piping.	
Gas side shutoff valve	$\varnothing 19.1$ The 10HP type corresponds to the 22.2-diameter onsite piping using the accessory piping.	$\varnothing 25.4$ The 10~12HP type corresponds to the 28.6-diameter onsite piping using the accessory piping.	$\varnothing 28.6$

<Tightening torque>

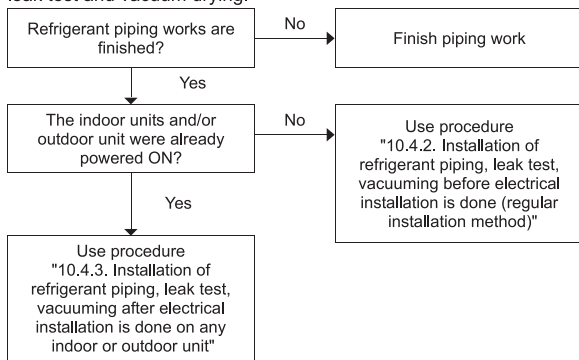
Shutoff valve size	Stop Valve Seal Structure	Tighten torque N•m (Turn clockwise to close)		
		Shaft (valve body)		Service port
Ø 9.5	Front - Seal Type	6.0±0.6	Hexagonal wrench 4 mm	12.7±1.2
Ø 12.7		9.0±0.9		
Ø 15.9		15.0±1.5	Hexagonal wrench 6 mm	
Ø 19.1	Front - Seal Type + Back - Seal Type	30.0±3.0	Hexagonal wrench 8 mm	
Ø 25.4			Hexagonal wrench 10 mm	
Ø 28.6				

10.4 Leak test and vacuum drying

It is very important that all refrigerant piping work is done before the units (outdoor or indoor) are powered on.

When the units are powered on, the expansion valves will initialize. This means that they will close. Leak test and vacuum drying of field piping and indoor units is impossible when this happens.

Therefore, there will be explained 2 methods for initial installation, leak test and vacuum drying.



10.4.1 General guidelines

- Use a 2-stage vacuum pump with a non-return valve which can evacuate to a gauge pressure of -100.7 kPa (5 Torr absolute, -755 mm Hg).
- Connect the vacuum pump to the service port of all 3 stop valves to increase efficiency (refer to "10.4.4.Setup").



NOTICE

Do not purge the air with refrigerants. Use a vacuum pump to evacuate the installation.

10.4.2 Installation of refrigerant piping, leak test, vacuuming before electrical installation is done (regular installation method)

When all piping work is complete, it is necessary to:

- Check for any leakages in the refrigerant piping.
- Perform vacuum drying to remove all moisture, air or nitrogen in the refrigerant piping.

If there is a possibility of moisture being present in the refrigerant piping (for example, rainwater may have entered the piping), carry out the vacuum drying procedure below until all moisture has been removed.

All piping inside the unit has been factory tested for leaks.

Only field installed refrigerant piping needs to be checked. Therefore, make sure that all the outdoor unit stop valves are firmly closed before performing leak test or vacuum drying.



NOTICE

Make sure that all (field supplied) field piping valves are OPEN (not outdoor unit stop valves!) before you start leak test and vacuuming.

10.4.3 Installation of refrigerant piping, leak test, vacuuming after electrical installation is done on any indoor or outdoor unit

Apply outdoor unit setting [2-21]=1 before starting leak test and vacuuming.

This setting will open field expansion valves to guarantee a R-410A piping pathway.



NOTICE

- Make sure that all (field supplied) field piping valves are OPEN (not outdoor unit stop valves!) before you start leak test and vacuuming.
- Make sure that all indoor units connected to the outdoor unit are powered on.
- Wait until the outdoor unit has finished the initialisation to apply setting [2-21].

When all piping work is complete, it is necessary to:

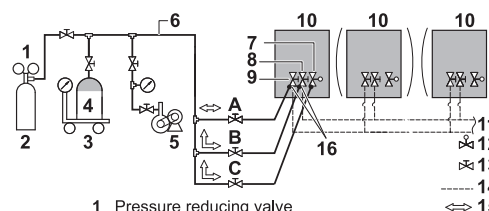
- Check for any leakages in the refrigerant piping.
- Perform vacuum drying to remove all moisture, air or nitrogen in the refrigerant piping.

If there is a possibility of moisture being present in the refrigerant piping (for example, rainwater may have entered the piping), first carry out the vacuum drying procedure below until all moisture has been removed.

All piping inside the unit has been factory tested for leaks.

Only field installed refrigerant piping needs to be checked. Therefore, make sure that all the stop valves are firmly closed before performing leak test or vacuum drying. (See "10.4.4 Set up" and "10.4 Leak test and vacuum drying")

10.4.4 Setup



- 1 Pressure reducing valve
- 2 Nitrogen
- 3 Measuring instrument
- 4 Refrigerant R-410A tank (siphon system)
- 5 Vacuum pump
- 6 Charge hose
- 7 Refrigerant auto charge valve
- 8 Gas line stop valve
- 9 Liquid line stop valve
- 10 Outdoor unit
- 11 To indoor unit
- 12 Needle valve
- 13 Stop valve
- 14 Field piping
- 15 Gas flow
- 16 Stop valve service port
- A Valve A
- B Valve B
- C Valve C

Which valves?	State of valves
State of the valves A and B and the stop valve	Performing the airtightness test and vacuum drying (Valve A always close, if not may be cause of refrigerant leakage)
Valve A	Open
Valve B	Open
Valve C	Close
Liquid side stop valve	Close
Gas side stop valve	Close



NOTICE

The connections to the indoor units and all indoor units should also be leak and vacuum tested. Keep any possible (field supplied) field piping valves open as well.

Refer to the indoor unit installation manual for more details. Leak test and vacuum drying should be done before the power supply is set to the unit. If not, see also the flow chart earlier described in this chapter (see "10.4.Leak test and vacuum drying").

10.4.5 Leak test

The leak test must satisfy the specifications of EN 378-2:

1 Vacuum leak test:

- 1.1 Evacuate the system from the liquid and gas piping to -100.7 kPa (5 Torr) for more than 2 hours.
- 1.2 Once reached, turn off the vacuum pump and check that the pressure does not rise for at least 1 minute.
- 1.3 Should the pressure rise, the system may either contain moisture (see vacuum drying below) or have leaks.

2 Pressure leak test:

- 2.1 Break the vacuum by pressurizing with nitrogen gas to a minimum gauge pressure of 0.2 MPa (2 bar). Never set the gauge pressure higher than the maximum operation pressure of the unit, i.e. 4.0 MPa (40 bar).
- 2.2 Test for leaks by applying a bubble test solution to all piping connections.
- 2.3 Discharge all nitrogen gas.



NOTICE

Make sure to use a recommended bubble test solution from your wholesaler. Do not use soap water, which may cause cracking of flare nuts (soap water may contain salt, which absorbs moisture that will freeze when the piping gets cold), and/or lead to corrosion of flared joints (soap water may contain ammonia which causes a corrosive effect between the brass flare nut and the copper flare).

10.4.6 Vacuum drying

To remove all moisture from the system, proceed as follows:

- 1 Evacuate the system for at least 2 hours to a target vacuum of -100.7 kPa.
- 2 Check that, with the vacuum pump turned off, the target vacuum is maintained for at least 1 hour.
- 3 Should you fail to reach the target vacuum within 2 hours or maintain the vacuum for 1 hour, the system may contain too much moisture.
- 4 In that case, break the vacuum by pressurizing with nitrogen gas to a gauge pressure of 0.05 MPa (0.5 bar) and repeat steps 1 to 3 until all moisture has been removed.
- 5 The outdoor stop valves can now be opened, and/or additional refrigerant can be charged (see "14.3 Method for adding refrigerant").



INFORMATION

After opening the stop valve, it is possible that the pressure in the refrigerant piping does not rise. This might be caused by e.g., the closed state of the expansion valve in the outdoor unit circuit, but does not present any problem for correct operation of the unit.



NOTICE

The connections to the indoor units and all indoor units should also be leak and vacuum tested. Keep, if existing, all (field supplied) field valves to the indoor units open as well.

Leak test and vacuum drying should be done before the power supply is set to the unit. If not, see "10.4 Leak test and vacuum drying" for more information.

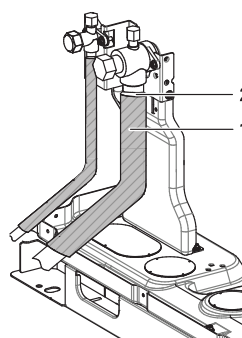
11. Pipe insulation

After finishing the leak test and vacuum drying, the piping must be insulated. Take into account the following points:

- Make sure to insulate the connection piping and refrigerant branch kits entirely.
- Be sure to insulate the liquid and gas piping (for all units).
- Use heat resistant polyethylene foam which can withstand a temperature of 70°C for liquid piping and gas piping.
- Reinforce the insulation on the refrigerant piping according to the installation environment.

Ambient temperature	Humidity	Minimum thickness
$\leq 30^{\circ}\text{C}$	75% to 80% RH	15 mm
$> 30^{\circ}\text{C}$	$> 80\%$ RH	20 mm

- If there is a possibility that condensation on the stop valve might drip down into the indoor unit through gaps in the insulation and piping because the outdoor unit is located higher than the indoor unit, this must be prevented by sealing up the connections. See below figure.



- 1 Insulation material
- 2 Caulking etc.

12. Electrical wiring work

12.1 Precautions on electrical wiring work



WARNING

Electrical installation. All field wiring and components must be installed by a licensed electrician and must comply with the applicable legislation.



NOTICE

Electrical wiring work recommendations. To persons in charge of electrical wiring work: Do not operate the unit until the refrigerant piping is complete. "10.4 Leak test and vacuum drying". Running the unit before the piping is ready will break the compressor.



DANGER: Electrical shock

See "2. General safety precautions".

**WARNING**

- A main switch or other means for disconnection, having a contact separation in all poles, must be incorporated in the fixed wiring in accordance with the applicable legislation.
- Use only copper wires.
- All field wiring must be carried out in accordance with the wiring diagram supplied with the unit and the instructions given below.
- Never squeeze bundled cables and be sure that it does not come in contact with the non-insulated piping and sharp edges. Be sure no external pressure is applied to the terminal connections.
- Power supply wires must be attached securely.
- If the power supply has a missing or wrong N-phase, equipment will break down.
- Be sure to establish an earth. Do not earth the unit to a utility pipe, surge absorber, or telephone earth. Incomplete earth may cause electrical shock.
- Be sure to install an earth leakage protector in accordance with the applicable legislation. Failure to do so may cause electric shock or fire.
- Be sure to use a dedicated power circuit, never use a power supply shared by another appliance.

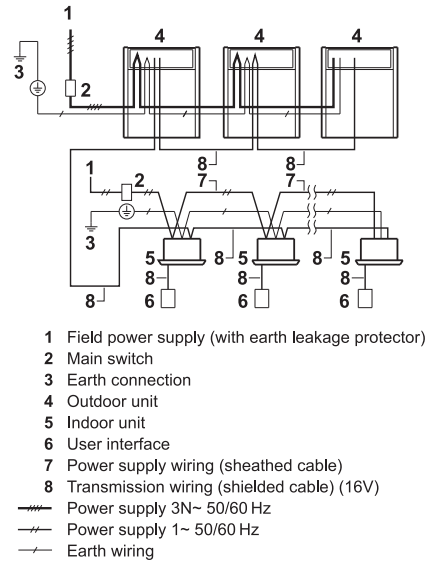
**WARNING**

- When installing the earth leakage protector be sure that it is compatible with the inverter (resistant to high frequency electric noise) to avoid unnecessary opening of the earth leakage protector.
- As this unit is equipped with an inverter, installing a phase advancing capacitor not only will deteriorate power factor improvement effect, but also may cause a capacitor abnormal heating accident due to high-frequency waves. Therefore, never install a phase advancing capacitor.
- Be sure to install the required fuses or circuit breakers.
- Do not operate until refrigerant piping work is completed. (If operated before completion of the piping work, the compressor may break down.)
- Never remove a thermistor, sensor, etc., when connecting power wiring and transmission wiring. (If operated without thermistor, sensor, etc., the compressor may break down.)
- The reversed phase protection detector of this product only functions when the product starts up. Consequently reversed phase detection is not performed during normal operation of the product.
- The reversed phase protection detector is designed to stop the product in the event of an abnormality when the product is started up.
- Replace two of the three phases (L1, L2, and L3) during reverse-phase protection abnormality.
- If there exists the possibility of reversed phase after a momentary black out and the power goes on and off while the product is operating, attach a reversed phase protection circuit locally. Running the product in reversed phase can break the compressor and other parts.

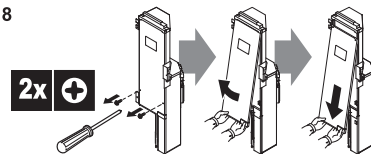
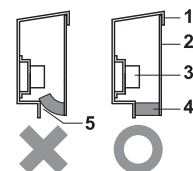
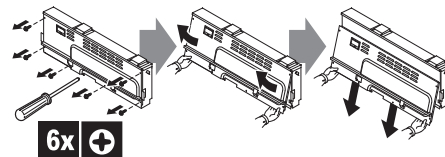
12.2 System overview of field wiring

Field wiring consists of power supply (always including earth) and indoor-outdoor communication (= transmission) wiring.

Examples:

**12.3 Opening and closing the electrical component box****CAUTION**

- Do not apply excessive force when opening the electronic component box cover. Excessive force can deform the cover, resulting in entering of water to cause equipment failure.
- When closing the electrical component box cover, make sure that the sealing material on the lower back side of the cover is not caught and bend towards the inside.

RXQ6~8**RXQ10~16**

- 1 Electrical component box cover
 - 2 Front side
 - 3 Power supply terminal block
 - 4 Sealing material
 - 5 Moisture and dirt could enter
- X Not allowed
O Allowed

12.4 Requirements

The power supply must be protected with the required safety devices, i.e. a main switch, a slow blow fuse on each phase and an earth leakage protector in accordance with the applicable legislation.

Selection and sizing of the wiring should be done in accordance with the applicable legislation based on the information mentioned in the table below.

Standard Model

Model	Minimum circuit ampere	Recommended fuses	Wire Size
RXQ6A	16.1 A	20 A	Select and install the power supply wiring in accordance with IEC 60335-1
RXQ8A	21.2 A	25 A	
RXQ10A	26.9 A	30 A	
RXQ12A/AN	26.9 A	30 A	
RXQ14A/AN	38.9 A	45 A	
RXQ16A/AN	38.9 A	45 A	
RXQ18AN	43 A	50 A	
RXQ20AN	48.1 A	60 A	
RXQ22AN	53.8 A	60 A	
RXQ24AN	53.8 A	60 A	
RXQ26AN	65.8 A	80 A	
RXQ28AN	65.8 A	80 A	
RXQ30AN	77.8 A	90 A	
RXQ32AN	77.8 A	90 A	
RXQ34AN	80.7 A	90 A	
RXQ36AN	80.7 A	90 A	
RXQ38AN	92.7 A	100 A	
RXQ40AN	92.7 A	100 A	
RXQ42AN	104.7 A	110 A	
RXQ44AN	104.7 A	110 A	
RXQ46AN	116.7 A	150 A	
RXQ48AN	116.7 A	150 A	
For all models: Phase and frequency: 3N~50/60 Hz Voltage: 380-415/400 V Transmission line section: 0.75~1.25mm ² , maximum length is 1000 m. Remark: For other model please see detail in Engineering Data. Note: Insulation of supply wiring must not lighter than 60245 IEC 57.			

If the total transmission wiring exceeds these limits, it may result in communication error.



NOTICE

When using residual current operated circuit breakers, be sure to use a high-speed type 200 mA rated residual operating current.

12.5 Routing

It is important to keep the power supply and the transmission wiring separated from each other. In order to avoid any electrical interference the distance between both wiring should always be at least 50 mm.

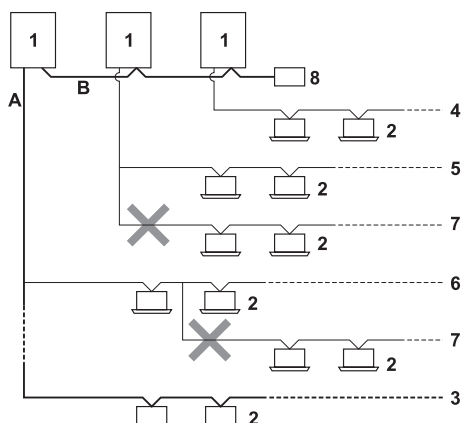
12.5.1 Transmission wiring routing

The transmission wiring outside the unit should be wrapped and routed together with the field piping.

Field piping can be routed from front or bottom of the unit (going left or right). Refer to "10.2.Connecting the refrigerant piping".

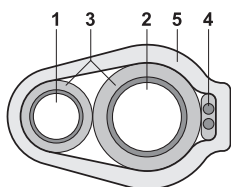
Rules for transmission wiring routing

- Be sure to follow the limits below. If the unit-to-unit cables are beyond these limits, it may result in malfunction of transmission:
 - Maximum wiring length: 1000 m.
 - Total wiring length: 2000 m.
 - Maximum inter unit wiring length between outdoor units: 30 m.
 - Maximum number of branches: 16.
 - Maximum number of independent interconnectable systems: 10.
- Up to 16 branches are possible for unit-to-unit cabling. No branching is allowed after branching (see figure below).



- 1 Outdoor unit
- 2 Indoor unit
- 3 Main line
- 4 Branch line 1
- 5 Branch line 2
- 6 Branch line 3
- 7 No branch is allowed after branch
- 8 Central user interface (etc...)
- A Transmission wiring between outdoor unit and indoor unit(s)
- B Transmission wiring between outdoor units

- Never connect the power supply to transmission wiring terminal block. Otherwise the entire system may break down.
- Never connect 400 V to the terminal block of the transmission wiring. Doing so will break the entire system:
 - The wiring from the indoor units must be connected to the F1/F2 (In-Out) terminals on the PC board in the outdoor unit.
 - After installing the transmission wires inside the unit, wrap them along with the on-site refrigerant pipes using finishing tape, as shown in figure below.



- 1 Liquid pipe
- 2 Gas pipe
- 3 Insulator
- 4 Transmission wiring (F1/F2)
- 5 Finishing tape

For the above wiring, always use vinyl cords with 0.75 to 1.25mm² shielded or cables (2-core wires).



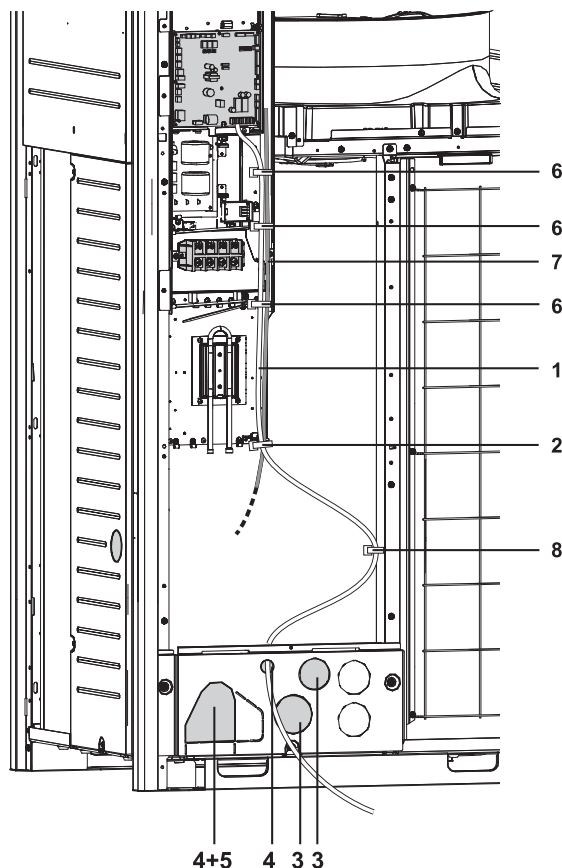
NOTICE

- Be sure to keep the power line and transmission line apart from each other. Transmission wiring and power supply wiring may cross, but may not run parallel.
- Transmission wiring and power supply wiring may not touch internal piping (except INV PCB cooling pipe) in order to avoid wire damage due to high temperature piping.
- Firmly close the lid and arrange the electrical wires so as to prevent the lid or other parts from coming loose.

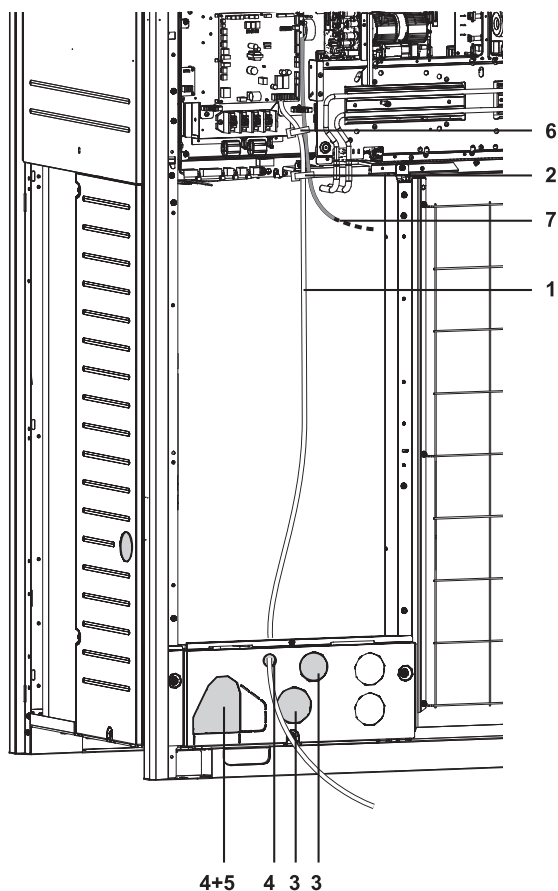
Transmission wiring routing to the unit and inside the unit. Transmission wiring can be routed through the front side only:

- Fix transmission wire with tie wrap (1) to low voltage wiring. See figures below, item 6.
- Possible transmission wire entrance hole (close hole to avoid bugs/dirt from entering). See figures below, item 4.
- Possible transmission wire entrance hole (close hole to avoid bugs/dirt from entering). Fix transmission wiring to pipe insulation with tie wraps. See figures below, item 5.
- Inside the electronic component box, the transmission wire should be fixed on several locations with tie wraps to low voltage wiring. See figures below, items 2 and 6.
- Fix transmission wire with tie wrap (2) to heat exchanger fixing plate (hole). See figures below, item 8.

RXQ6-8



RXQ10~16



- 1 Transmission wiring
- 2 Fix wiring with tie wrap
- 3 Possible power supply wire entrance hole^(a)
- 4 Possible transmission wire entrance hole^(a)
- 5 Possible transmission wire entrance hole^(a) Fix wiring to pipe insulation with tie wraps
- 6 Inside the electronic component box, the wiring should be fixed on several locations with tie wraps to the factory mounted low voltage wiring.
- 7 Factory mounted low voltage wiring
- 8 Fix wiring with tie wrap (2) to heat exchanger fixing plate (hole).

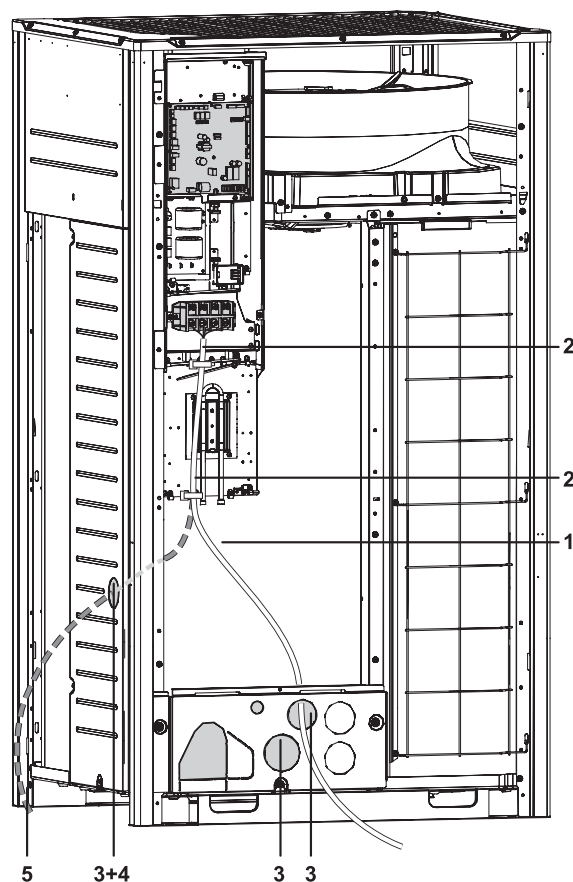
(a) Knockout hole has to be removed. Close the hole to avoid small animals or dirt from entering.

12.5.2 Power supply wiring routing

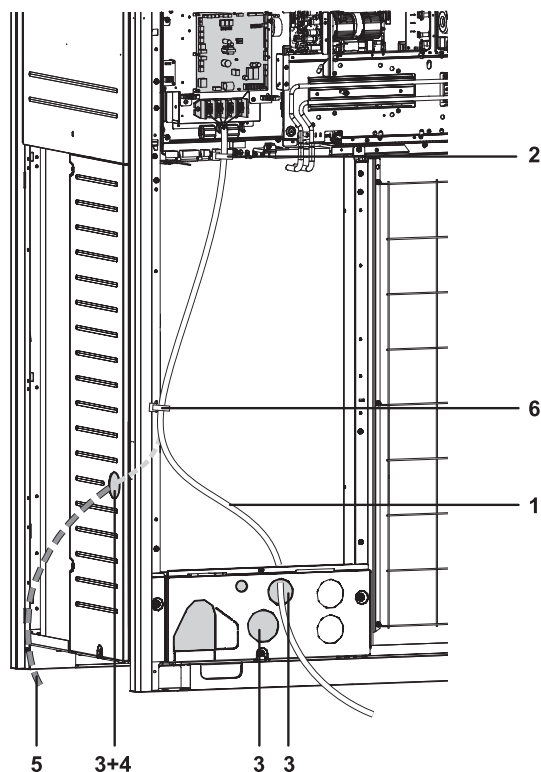
Power supply wire routing to the unit and inside the unit. The power supply wiring can be routed from the front and left side.

- Front side. In order to route the power supply from the front side, the available knockout holes can be used:
 - Fix the power supply cable to the foreseen wire clips with a tie wrap. See figures below, item 2.
 - Front plate: possible power supply wire entrance hole (close hole to avoid bugs/dirt from entering). See figures below, item 3.
 - Side plate: possible power supply wire entrance hole (close hole to avoid bugs/dirt from entering). Use conduit. See figures below, item 4.

RXQ6~8



RXQ 10~16

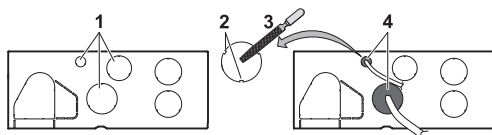


- 1 Power supply wire
- 2 Fix wiring with tie wrap
- 3+4 Possible power supply wire entrance hole^(a)
- 5 Alternative power supply routing
- 6 Fix wiring with tie wrap to support plate.

(a) Knockout hole has to be removed. Close the hole to avoid small animals or dirt from entering.

12.5.3 Precautions when knocking out knockout holes

- To punch a knockout hole, hit on it with a hammer.
- After knocking out the holes, we recommend removing any burrs and paint the edges and areas around the holes using repair paint to prevent rusting.
- When passing electrical wiring through the knockout holes, prevent damage to the wires by wrapping the wiring with protective tape, putting the wires through field supplied protective wire conduits at that location, or install suitable field supplied wire nipples or rubber bushings into the knockout holes.



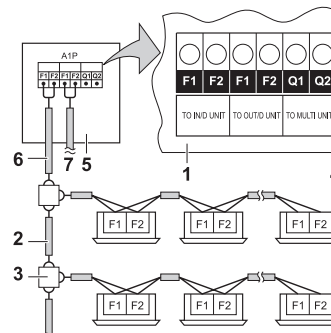
- 1 Knockout hole
- 2 Burr
- 3 Remove burrs
- 4 If there are any possibilities that small animals enter the system through the knockout holes, plug the holes with packing materials (to be prepared on-site)

12.6 Connection

This chapter gives an explanation how to route and connect the wiring within the unit.

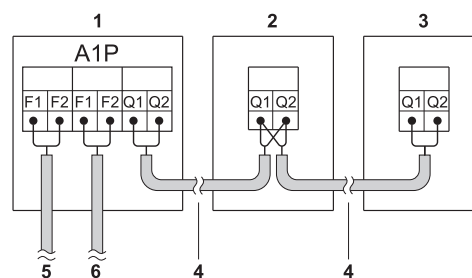
12.6.1 Connection of transmission wiring to the system

In case of single outdoor unit installation



- 1 Outdoor unit PCB board (A1P)
- 2 Use the conductor of shielded wire (2 wire) (no polarity)
- 3 Terminal board (field supply)
- 4 Indoor unit
- 5 Outdoor unit
- 6 Outdoor - indoor unit transmission (F1/F2)
- 7 Outdoor - other system transmission (F1/F2)

In case of multi outdoor unit installation

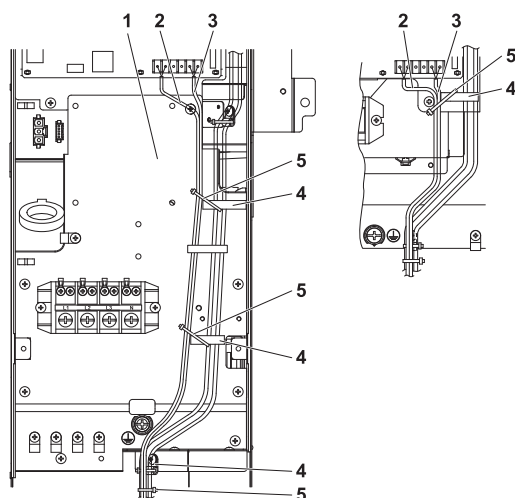


- 1 Unit A (master unit)
- 2 Unit B (slave unit)
- 3 Unit C (slave unit)
- 4 Inter unit transmission wiring (Q1/Q2)
- 5 Outdoor-indoor unit transmission (F1/F2)
- 6 Outdoor-other system transmission (F1/F2)

- The interconnecting wiring between the outdoor units in the same piping system must be connected to the Q1/Q2 (Out Multi) (4) terminals. Connecting the wires to the F1/F2 terminals results in system malfunction.
- The wiring for the other systems must be connected to the F1/F2 (Out-Out) (6) terminals of the PCB board in the outdoor unit to which the interconnecting wiring for the indoor units is connected.
- The base unit is the outdoor unit to which the interconnecting wiring for the indoor units is connected.

12.6.2 Connection of wiring to terminals

Transmission wiring in outdoor unit



- 1 Fix to the indicated plastic brackets using field supplied clamping material
- 2 Wiring between the units (indoor-outdoor) (F1/F2 left)
- 3 Internal transmission wiring (Q1/Q2)
- 4 Plastic bracket
- 5 Field supplied clamps

Care should be taken for connecting the wires to the terminal block.

See the table below for the tightening torque of the transmission wiring terminals.

Screw size	Tightening torque (N·m)
M3.5 (A1P)	0.88±0.08

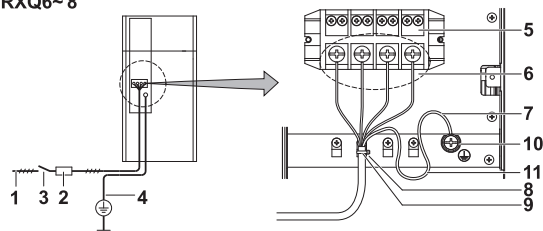
- Never connect the power supply to transmission wiring terminal block. Otherwise the entire system may break down.
- Be careful about polarity of the transmission wiring.

Power supply

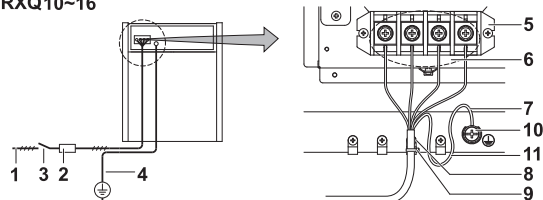
The power supply must be clamped to the plastic bracket using field supplied clamp material.

The green and yellow striped wire must be used for earthing only (refer to the figure below).

RXQ6~8



RXQ10~16



- 1 Power supply (380~415 V - 3N~ 50 Hz / 380 V - 3N~60 Hz)
- 2 Fuse
- 3 Earth leakage protector
- 4 Earth wire
- 5 Power supply terminal block
- 6 Connect each power wire: RED to L1, WHT to L2, BLK to L3 and BLU to N

- 7 Earth wire (GRN/YLW)
- 8 Clamp the power supply to the plastic bracket using a field supplied clamp to prevent external force being applied to the terminal.
- 9 Clamp (field supplied)
- 10 Cup washer
- 11 When connecting the earth wire, it is recommended to perform curling.



NOTICE

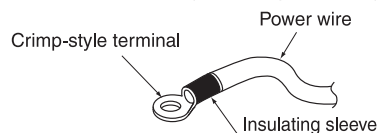
- When routing earth wires, secure clearance of 25 mm or more away from compressor lead wires. Failure to observe this instruction properly may adversely affect correct operation of other units connected to the same earth.
- When connecting the power supply, the earth connection must be made before the current-carrying connections are established. When disconnecting the power supply, the current-carrying connections must be separated before the earth connection is. The length of the conductors between the power supply stress relief and the terminal block itself must be as such that the current-carrying wires are tightened before the earth wire is in case the power supply is pulled loose from the stress relief.



NOTICE

Precautions when laying power wiring:

- Do not connect wiring of different thicknesses to the power terminal block (slack in the power wiring may cause abnormal heat).
- Be sure to use crimp-style terminal with insulating sleeves for connections. (See the figure below.)



- When connecting wiring which is the same thickness, do as shown in the figure below.



- For wiring, use the designated power wire and connect firmly, then secure to prevent outside pressure being exerted on the terminal board.
- Use an appropriate screwdriver for tightening the terminal screws. A screwdriver with a small head will damage the head and make proper tightening impossible.
- Over-tightening the terminal screws may break them.
- See the table below for tightening torque for the terminal screws.

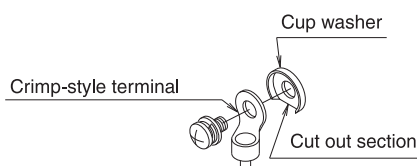
Tightening torque (N·m)	
M8 (Power terminal block)	6.3±0.6
M8 (Ground)	
M3.5 (Inter-unit wiring terminal block)	0.88±0.08



NOTICE

Recommendations when connecting the earth wire

Wire it so that it comes through the cut out section of the cup washer. (An improper earth connection may prevent a good earthing from being achieved.) (See the figure below.)

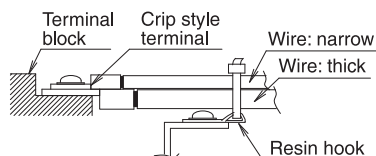


Connecting the power supply to multiple outdoor units

To connect the power supply for multiple outdoor units to each other, ring tongues have to be used. No bare cable can be used.

The ring washer which is standard provided should be removed in that case.

Attaching both cables to the power supply terminal should be done as indicated.



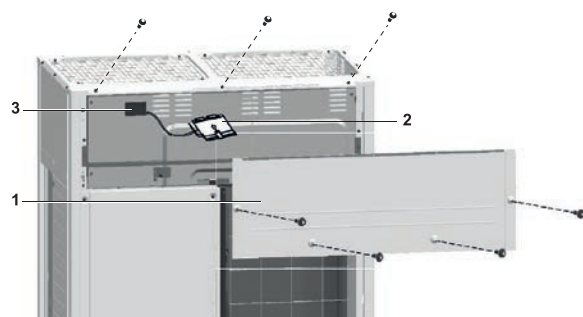
13. Making field settings

To continue the configuration of the VRV X cooling only system, it is required to give some input to the logic board of the unit. This chapter will describe how manual input is possible by operating the push buttons/DIP switches on the logic board and reading the feedback from the 7 segment displays.

13.1 Accessing the push buttons on the logic board

It is not required to open the complete electronic component box to access the push buttons on the logic board and read out the 7 segment display(s).

To access you can remove the front plate (see figure). Now you can open the inspection cover of the electrical component box front plate (see figure). You can see the three push buttons and the three 7 segment displays and DIP switches.

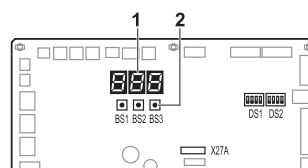


- 1 Front plate
- 2 Inspection cover
- 3 Main PCB with 3 seven segment display and 3 push buttons

Operate the switches and push buttons with an insulated stick (such as a closed ball-point pen) to avoid touching of live parts.

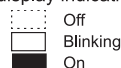


Location of the 7 segment displays, buttons and DIP switches:



- BS1 MODE** for changing the set mode
- BS2 SET** for field setting
- BS3 RETURN** for field setting
- DS1, DS2** DIP switches
- 1** 7 segment displays (3x)
- 2** Push buttons

Segment display indications:



13.2 Operating the push buttons and DIP switches on the logic board

13.2.1 Operating the push buttons

By operating the push buttons it is possible to:

- Perform special actions (test run, etc).
- Perform field settings (demand operation, low noise, etc).

Below procedure explains how to operate the push buttons to reach the required mode in the menu, select the correct setting and modify the value of the setting. This procedure can be used any time special settings and regular field setting are discussed in this manual.

Setting definition: [A-B]=C; A=mode; B=setting; C=setting value. A, B and C are numerical values for field settings. Parameter C has to be defined. It can be chosen from a set (0, 1, 2, 3, 4, 5, ...) or regarded as an ON/OFF (1 or 0) depending on the contents. This is informed when the field setting is explained.



INFORMATION

During special operation (e.g., test run, etc.) or when a malfunction happened, information will contain letters and numerical values.

Functions of the push button switches which are located on the outdoor PCB (A1P)

Turn on the power supply of the outdoor unit and all indoor units. When the communication between indoor units and outdoor unit(s) is established and normal, the segment indication state will be as below (default situation when shipped from factory).

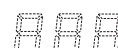
When turning on the power supply: flashing as indicated. First checks on power supply are executed (1~2 min).



When no trouble occurs: lighted as indicated (8~10 min).



Ready for operation: blank display indication as indicated.



When above situation cannot be confirmed after 12 min, the malfunction code can be checked on the indoor unit user interface and the outdoor unit segment display. Solve the malfunction code accordingly. The communication wiring should be checked at first.

Accessing modes

BS1 is used to change the mode you want to access.

- **Access mode 1**
Push BS1 one time. Segment indication changes to:



- **Access mode 2**
Push BS1 for at least 5 seconds. Segment indication changes to:



INFORMATION

If you get confused in the middle of the process, push BS1. Then it returns to idle situation (no indication on segment displays: blank)

Mode 1

Mode 1 is used to set basic settings and to monitor the status of the unit.

- Changing and access the setting in mode 1:
Once mode1 is selected (push BS1 1 time), you can select the wanted setting. It is done by pushing BS2. Accessing the selected setting's value is done by pushing BS3 1 time.
- To quit and return to the initial status, press BS1.

Example:

Checking the content of parameter [1-10] (to know how many indoor units are connected to the system).

[A-B]=C in this case defined as: A=1; B=10; C=the value we want to know/monitor:

- Make sure the segment indication is as during normal operation (default situation when shipped from factory).
- Push BS1 1 time; result segment display:



Result: mode 1 is accessed.

- Push BS2 10 times; result segment display:



Result: mode 1 setting 10 is addressed.

- Push BS3 1 time; the value which is returned (depending on the actual field situation), is the amount of indoor units which are connected to the system.
Result: mode1 setting 10 is addressed and selected, return value is monitored information
- To leave the monitoring function, push BS1 1 time, you will return to the default situation when shipped from factory.

Mode 2

Mode2 is used to set field settings of the outdoor unit and system.

- Changing and access the setting in mode 2:
Once mode 2 is selected (push BS1 for more than 5 seconds), you can select the wanted setting. It is done by pushing BS2. Accessing the selected setting's value is done by pushing BS3 1 time.
- To quit and return to the initial status, press BS1.
- Changing the value of the selected setting in mode 2:
 - Once mode 2 is selected (push BS1 for more than 5 seconds) you can select the wanted setting. It is done by pushing BS2.
 - Accessing the selected setting's value is done by pushing BS3 1 time.
 - Now BS2 is used to select the required value of the selected setting.
 - When the required value is selected, you can define the change of value by pushing BS3 1 time.
 - Press BS3 again to start operation according to the chosen value.

Example:

Checking the content of parameter [2-18] (to define the high static pressure setting of the outdoor unit's fan).

[A-B]=C in this case defined as: A=2; B=18; C=the value we want to know/change

- Make sure the segment indication is as during normal operation (default situation when shipped from factory).
- Push BS1 for over 5 seconds; result segment display:



Result: mode 2 is accessed.

- Push BS2 18 times; result segment display:



Result: mode 2 setting 18 is addressed.

- Push BS3 1 time; the value which is returned (depending on the actual field situation), is the status of the setting. In the case of [2-18], default value is "0", which means the function is not active.
Result: mode2 setting 18 is addressed and selected, return value is the current setting situation.
- To change the value of the setting, push BS2 till the required value appears on the segment indication. When achieved, define the setting value by pushing BS3 1 time. To start operation according to the chosen setting, confirm again by pushing BS3.
- To leave the monitoring function, push BS1 2 times, you will return to the default situation when shipped from factory.

13.2.2 Operating the DIP switches

By operating the DIP switches it is possible to:

What to do with DIP switch DS1	
1	OFF=not installed=factory setting
2-4	NOT USED DO NOT CHANGE THE FACTORY SETTING
What to do with DIP switch DS2	
1-4	NOT USED DO NOT CHANGE THE FACTORY SETTING

14. Charging refrigerant

14.1 Precautions



NOTICE

- Refrigerant cannot be charged until field wiring has been completed.
- Refrigerant may only be charged after performing the leak test and the vacuum drying.
- When charging a system, care shall be taken that its maximum permissible charge is never exceeded, in view of the danger of liquid hammer.
- Charging with an unsuitable substance may cause explosions and accidents, so always ensure that the appropriate refrigerant R-410A is charged.
- Refrigerant containers shall be opened slowly.
- Always use protective gloves and protect your eyes when charging refrigerant.
- When the refrigerant system is to be opened, refrigerant must be treated according to the applicable legislation.



DANGER: Electrical shock

See "2. General safety precautions".

- To avoid compressor breakdown. Do not charge the refrigerant more than the specified amount.
- This outdoor unit is factory charged with refrigerant and depending on pipe sizes and pipe lengths some systems require additional charging of refrigerant.
- In case re-charge is required, refer to the name plate of the unit. It states the type of refrigerant and necessary amount.

14.2 Calculating the additional refrigerant charge

How to calculate the additional refrigerant to be charged

Additional refrigerant to be charged=R (kg). R should be rounded off in units of 0.1 kg.

$$R=[(X_1 @ \text{Ø}22.2) \times 0.36 + (X_2 @ \text{Ø}19.1) \times 0.26 + (X_3 @ \text{Ø}15.9) \times 0.17 + (X_4 @ \text{Ø}12.7) \times 0.11 + (X_5 @ \text{Ø}9.5) \times 0.057 + (X_6 @ \text{Ø}6.4) \times 0.022] + A$$

$X_{1...6}$ = Total length (m) of liquid piping size at Øa

A parameter (kg)	Total indoor unit capacity CR ^(a)	HP			
		6	8	10~12	14~16
Piping length ≤ 30 m	50% ≤ CR ≤ 105%	0			2
	105% < CR ≤ 130%	0.5			2.5
Piping length > 30 m	50% ≤ CR ≤ 70%	0			2
	70% < CR ≤ 85%	0.3	0.5		2.5
	85% < CR ≤ 105%	0.7	1.0		3
	105% < CR ≤ 130%	1.2	1.5		3.5

(a) CR=Connection ratio.

Piping length is considered the distance from the outdoor unit to the farthest indoor unit.

When using metric piping, please take into account following table concerning the weight factor to be allocated. It should be substituted in the formula for R.

Inch piping	
size (Ø) (mm)	Weight factor
Ø6.4 (1/4")	0.022
Ø9.5 (3/8")	0.057
Ø12.7 (1/2")	0.11
Ø15.9 (5/8")	0.17
Ø19.1 (3/4")	0.26
Ø22.2 (7/8")	0.36

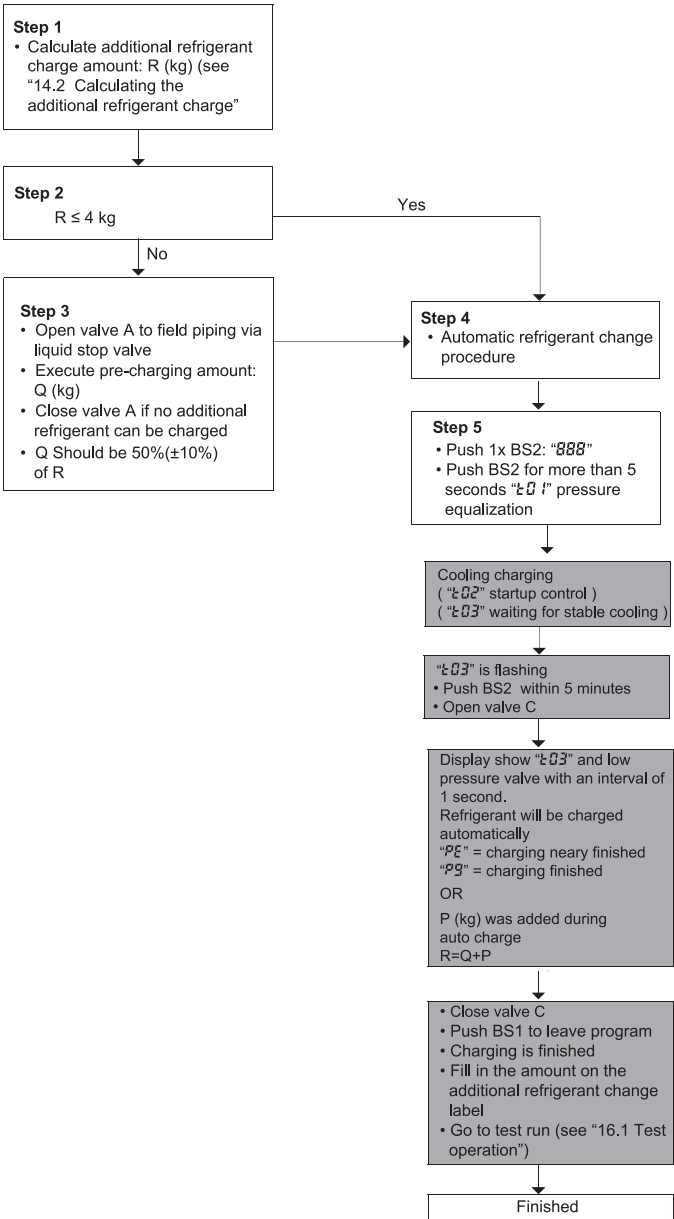
When selecting indoor unit, following table with connection ratio limitation has to be respected. More detailed information can be found in technical engineering data.

Used indoor units	Total capacity CR ^(a)	Allowable capacity connection ratio	
		VRV	RA
VRV	50~130%	50~130%	—
VRV + RA	50~130%	0~130%	0~130%
RA	50~130%	—	50~130%

(a) Connection ratio.

14.3 Method for adding refrigerant

14.3.1 Flow chart

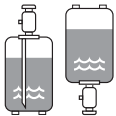


See figure "Location of valves" ; for more information refer to the text in this chapter.

Be sure to charge the specified amount of refrigerant in liquid state.
Since this refrigerant is a mixed refrigerant, adding it in gas form may cause the refrigerant composition to change, preventing normal operation.

- Before charging, check whether the refrigerant cylinder is equipped with a siphon tube or not.

Charge the liquid refrigerant with the cylinder in upright position.



Charge the liquid refrigerant with the cylinder in upside-down position.

- Be sure to use tools exclusively for R-410A to ensure required pressure resistance and to prevent foreign materials from mixing into the system.



INFORMATION

The automatic refrigerant charging has limits as described below.

- Outdoor temperature: 0°C DB~50°C DB.
- Indoor temperature: 10°C DB~32°C DB.



NOTICE

Charging with an unsuitable substance may cause explosions and accidents, so always make sure that the appropriate refrigerant (R-410A) is charged.Refrigerant containers must be opened slowly.

**CAUTION**

- If charge refrigerant without automatic charging procedure, refrigerant amount might over the permissible quantity and result to liquid hammer.
- Always use protective gloves and protect your eyes when charging refrigerant.
- When the refrigerant charging procedure is done or when pausing, close the valve of the refrigerant tank immediately. If the tank is left with the valve open, the amount of refrigerant which is properly charged may get off point. More refrigerant may be charged by any remaining pressure after the unit has stopped.

**NOTICE**

- If the power of some units is turned off, the charging procedure cannot be finished properly.
- In case of a multiple outdoor system, turn on the power of all outdoor units.
- Make sure to turn ON the power 6 hours before starting the operation. This is necessary to warm the crankcase by per-heating operation (automatic)
- If operation is performed within 12 minutes after the indoor and outdoor units are turned on, the compressor will not operate before the communication is established in a correct way between outdoor unit(s) and indoor units.
- Before starting charging procedures, check if the segment display indication of the outdoor unit A1P PCB is as normal (see "Functions of the push button switches which are located on the outdoor PCB (A1P)"). If a malfunction code is present, see "16.2. Malfunction code list".
- Make sure all connected indoor units are recognised
- Close the front panel before any refrigerant charge operation is executed. Without the front panel attached the unit cannot judge correctly whether it is operating properly or not.

**NOTICE**

In case of maintenance and the system (outdoor unit+field piping+indoor units) does not contain any refrigerant any more (e.g., after refrigerant reclaim operation), the unit has to be charged with its original amount of refrigerant (refer to the nameplate on the unit) by pre-charging before the automatic charging function can be started.

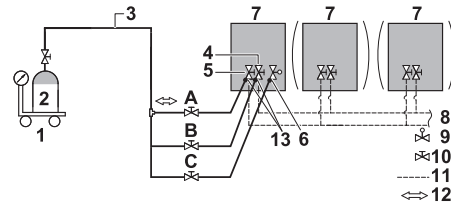
14.3.2 Charging method

As explained during vacuum drying method, once vacuum drying is finished, additional refrigerant charging can start.

A flow chart is available which gives an overview of the possibilities and actions to be taken (see "14.3.1 Flow chart").

Follow the steps as described below and take into account whether you use the automatic charge function or pre-charging.

- 1 Calculate the additional amount of refrigerant to be added using the formula mentioned in "14.2 Calculating the additional refrigerant charge"
- 2 Check the additional refrigerant amount R (kg)
 - Total additional refrigerant is 4 kg or less ($R \leq 4$ kg) perform the automatic refrigerant charging procedure as explained in step 4.
 - Total additional refrigerant amount more than 4 kg ($R > 4$ kg) perform the per-charging procedure as explained in step 3.
- 3 The first 50% ($\pm 10\%$) of additional refrigerant can be charged without outdoor unit operation.
 - Pre-charging can be done without compressor running by connecting the refrigerant bottle only to the liquid stop valve service port (open valve A). Make sure that the stop valves are closed (valve C and valve B+gas line stop valve)

Location of valves

- 1 Measuring instrument
- 2 Refrigerant R-410A tank (siphon system)
- 3 Charge hose
- 4 Gas line stop valve
- 5 Liquid line stop valve
- 6 Refrigerant auto change valve
- 7 Outdoor unit
- 8 To indoor unit
- 9 Needle valve
- 10 Stop valve
- 11 Field piping
- 12 Gas flow
- 13 Stop valve service port
- A Valve A
- B Valve B
- C Valve C

- After pre-charging, perform the refrigerant charge operation as shown below and charge the remaining refrigerant of the additional charging amount through valve C. Open the liquid and gas side stop valves. Valves A and B and C must remain closed !

**INFORMATION**

For a multi outdoor unit system, it is not required to connect all charge ports to a refrigerant tank.

The refrigerant will be charged with 22 kg in 1 hour time at an outdoor temperature of 30°C DB or with 6 kg at an outdoor temperature of 0°C DB.

If you need to speed up in case of a multiple outdoor system, connect the refrigerant tanks to each outdoor unit.

**NOTICE**

- The unit's internal piping is already factory charged with refrigerant, so be careful when connecting the charge hose.
- After adding the refrigerant, do not forget to close the lid of the refrigerant charging port. The tightening torque for the lid is 11.5 to 13.9 N·m.
- In order to ensure uniform refrigerant distribution, it may take the compressor ± 10 minutes to start up after the unit has started operation. This is not a malfunction.

- 4 Adding refrigerant by using the automatic charging function.

- 5 The remaining additional refrigerant charge can be charged by operating the outdoor unit depending on the ambient limitation conditions (see the given information in page 31).

Procedure

- Idle (default) screen is shown.
- Push BS2 once, indication "888".
- Push BS2 for more than 5 seconds, wait while the unit is preparing for operation. Segment display indication: "E01" (pressure control is executed):
 - Cooling operation is started: indication "E02" till "E03" will be displayed (start up control; waiting stable cooling operation).

- When "t03" starts flashing (ready for charging), push BS2 within 5 minutes. Open valve C. If BS2 is not pushed within 5 minutes, a malfunction code will appear:
 - Cooling operation: malfunction code "P2" will appear. Push BS1 to abort and restart the procedure.

Cooling (middle segment indicates "t")

Automatic charging will continue, the segment indication shows the current low pressure value and the status indication "t03" intermittent.

If the segment indication/user interface of indoor unit shows "PE" code, charging is almost finished. When the unit stops operating, close valve C and check whether the segment indication/user interface of indoor unit shows "P3".

This indicates the automatic charging in cooling program was finished successfully.



INFORMATION

When the charging amount is little, the "PE" code may not be displayed, but instead the "P3" code will be displayed immediately.



INFORMATION

- When a malfunction is detected during the procedure (e.g. in case of closed stop valve), a malfunction code will be displayed. In that case, refer to "16.2 Malfunction code list" and solve the malfunction accordingly. Resetting the malfunction can be done by pushing BS1. The procedure can be restarted from 5).

- Aborting the automatic refrigerant charge is possible by pushing BS1. The unit will stop and return to idle condition.

Information which may occur during additional refrigerant charging procedures:

P8: Indoor unit freeze up prevention

Action: Close valve C. Reset malfunction by pushing BS1. Retry auto charge procedure.

P2: Abnormal low pressure drop

Action: Close valve C. Reset malfunction by pushing BS1. Check following items before retry auto charge procedure:

- Check if the gas side stop valve is opened correctly.
- Check if the valve of the refrigerant cylinder is opened.
- Check if the air inlet and outlet of the indoor units are not obstructed.

Other malfunction code: close valve C. Confirm the malfunction code and take corresponding action, "16.2 Malfunction code list".

14.3.3 Checks after adding refrigerant

- Are the stop valves for liquid and gas open?
- Is the amount of refrigerant, that has been added, recorded on the refrigerant charge label?



NOTICE

Make sure to open all stop valves after (pre-) charging the refrigerant.

Operating with the stop valves closed will damage the compressor.

15. Monitoring function and field settings

The operation of the outdoor unit can further be defined by changing some field settings. Next to making field settings it is also possible to confirm the current operation parameters of the unit.

Below relevant Monitoring mode (mode 1) and Field setting mode (mode 2) settings are explained in detail. How to access them, how to change the value of the settings and how to confirm them is explained in "13. Making field settings". In that chapter, an example is given on how to make a setting. It is advised to check this procedure before accessing, checking and changing below settings.

Once the default situation of the segment indication is confirmed (see "13. Making field settings"), the mode 1 and mode 2 can be accessed.

Making settings is done via the master outdoor unit.

15.1 Mode 1

Mode 1 can be used to monitor the current situation of the outdoor unit. Some field setting contents can be monitored as well.

Below the settings in mode 1 are explained.

[1-0]= shows whether the unit you check is a master, slave 1 or slave 2 unit

- No indication=undefined situation
- 0=outdoor unit is master unit
- 1=outdoor unit is slave 1 unit
- 2=outdoor unit is slave 2 unit

Master, slave 1 and slave 2 indications are relevant in multiple outdoor unit system configurations. The allocation of which outdoor unit is master, slave 1 or slave 2 are decided by the unit's logic.

The master unit should be used to input field settings in mode 2

[1-1]= shows the status of low noise operation

- 1=unit is currently operating under low noise restrictions
- 0= unit is currently not operating under low noise restrictions

Low noise operation reduces the sound generated by the unit compared to nominal operating conditions.

Low noise operation can be set in mode 2. There are two methods to activate low noise operation of the outdoor unit system.

The first method is to enable an automatic low noise operation during night time by field setting. The unit will operate at the selected low noise level during the selected time frames.

The second method is to enable low noise operation based on an external input. For this operation an optional accessory is required.

[1-2]= shows the status of power consumption limitation operation

- 1=unit is currently operating under power consumption limitation
- 0=unit is currently not operating under power consumption limitations

Power consumption limitation reduces the power consumption of the unit compared to nominal operating conditions.

Power consumption limitation can be set in mode 2. There are two methods to activate power consumption limitation of the outdoor unit system.

The first method is to enable a forced power consumption limitation by field setting. The unit will always operate at the selected power consumption limitation.

The second method is to enable power consumption limitation based on an external input. For this operation an optional accessory is required.

[1-5]= shows the current T_e target parameter position.

Refer to "15.3 Energy saving and optimum operation" for more details about the contents of this value

[1-10]= shows the total number of connected indoor units.

It can be convenient to check if the total number of indoor units which are installed match the total number of indoor units which are recognized by the system. In case there is a mismatch, It is advised to check the communication wiring path between outdoor and indoor units (F1/F2 communication line).

[1-13]= shows the total number of connected outdoor units (in case of multiple outdoor system).

It can be convenient to check if the total number of outdoor units which are installed matches the total number of outdoor units which are recognized by the system. In case there is a mismatch, It is advised to check the communication wiring path between outdoor and outdoor units (Q1/Q2 communication line).

[1-17]= shows the latest malfunction code.

[1-18]= shows the malfunction code which occurred 1 time before current malfunction code.

[1-19]= shows the malfunction code which occurred 2 time before current malfunction code.

When the latest malfunction codes were reset by accident on an indoor unit user interface, they can be checked again through this monitoring settings. For the content or reason behind the malfunction code see "16.2 Malfunction code list", where most relevant malfunction codes are explained. Detailed information about malfunction codes can be consulted in the service manual of this unit.

[1-38]= shows the number of RA indoor units connected to the system.

[1-40]= shows the current cooling comfort setting. See "15.3 Energy saving and optimum operation" for more details about this setting.

15.2 Mode 2

Mode 2 is used to change the field settings of the system. Consulting the current field setting value and changing the current field setting value is possible.

In general, normal operation can be resumed without special intervention after changing field settings.

Some field settings are used for special operation (e.g., 1 time operation, recovery/vacuuming setting, manual adding refrigerant setting, etc.). In such a case, it is required to abort the special operation before normal operation can restart. It will be indicated in below explanations.

[2-8]= T_e target temperature T_e fix control
Default value=2

Value [2-8]	T _e target
2	6 (Default)
3	7
4	8
5	9
6	10
7	11

Change [2-8]=2~7 in function of required operation method during cooling.

[2-11]= Activation VRT control and VRT Smart control via External control adaptor (Optional).

Value [2-11]	Meaning
0	Inactive (Default)
1	VRT Smart active by low noise terminal short-circuit
2	VRT Smart active by demand terminal short-circuit

VRT Smart can be activated by short circuit the terminal on External control adaptor (Optional) according to [2-11] setting.

If the terminal on external control adapter is not connected by short circuit with [2-11]≠0, the system operates according to [2-8] setting.

[2-12]= Enable the low noise function and/or power consumption limitation via external control adaptor (DTA104A61/62)

If the system needs to be running under low noise operation or under power consumption limitation conditions when an external signal is sent to the unit, this setting should be changed. This setting will only be effective when the optional external control adaptor (DTA104A61/62) is installed.

Default value=0
To activate this function change [2-12]=1.

[2-18]= Fan high static pressure setting

In order to increase the static pressure the outdoor unit fan is delivering, this setting should be activated. For details about this setting, see technical specifications.

Default value=0.
To activate this function change [2-18]=1.

[2-21]= Refrigerant recovery/vacuuming mode

In order to achieve a free pathway to reclaim refrigerant out of the system or to remove residual substances or to vacuum the system it is necessary to apply a setting which will open required valves in the refrigerant circuit so the reclaim of refrigerant or vacuuming process can be done properly.

Default value=0
To activate function charge [2-21]=1

To stop the refrigerant recovery/vacuuming mode, push BS3. If BS3 is not pushed, the system will remain in refrigerant recovery/vacuuming mode.

[2-22]= Night time low noise setting and level.

By changing this setting, you activate the automatic low noise operation function of the unit and define the level of operation. Depending on the chosen level, the noise level will be lowered (4:Level4<3:Level3<2:Level2<1:Level1). The start and stop moments for this function are defined under setting [2-26] and [2-27].

Default value=0.
To activate function change [2-22]=1,2,3 or 4.

[2-23]= Activate T_e fix control.

In order to operate T_e fix control, it is necessary to apply a setting below. T_e value depends on [2-8] setting.

Default value=0.
T_e fix control [2-23]=1

[2-25]= Low noise operation level via the external control adaptor.

If the system needs to be running under low noise operation conditions when an external signal is sent to the unit, this setting defines the level of low noise that will be applied (4:Level4<3:Level3<2:Level2<1:Level1).

This setting will only be effective when the optional external control adaptor (DTA104A61/62) is installed and the setting [2-12] was activated.

Default value=2

To activate function change [2-25]=1,2,3 or 4.

[2-26]= Low noise operation start time
Change [2-26]=1,2 or 3 in function of required timing.

Default value=2.

Value [2-26]	Start time automatic low noise operation (approximately)
1	20:00
2	22:00 (default)
3	24:00

This setting is used in conjunction with setting [2-22].

[2-27]= Low noise operation stop time
Default value=3

Value [2-27]	Stop time automatic low noise operation (approximately)
1	6:00
2	7:00
3	8:00 (default)

This setting is used in conjunction with setting [2-22].

[2-30]= Power consumption limitation level (step 1) via the external control adaptor (DTA104A61/62).

If the system needs to be running under power consumption limitation conditions when an external signal is sent to the unit, this setting defines the level power consumption limitation that will be applied for step 1. The level is according to the table.

Default value=3

Change [2-30]=1,2,3,4,5,6,7 or 8 in function of required limitation.

Value [2-30]	Power consumption limitation (approximately)
1	60%
2	65%
3	70% (default)
4	75%
5	80%
6	85%
7	90%
8	95%

[2-31]= Power consumption limitation level (step 2) via the external control adaptor (DTA104A61/62).

If the system needs to be running under power consumption limitation conditions when an external signal is sent to the unit, this setting defines the level power consumption limitation that will be applied for step 2. The level is according to the table.

Default value=1

Change [2-31]=1,2 or 3 in function of required limitation.

Value [2-31]	Power consumption limitation (approximately)
1	40% (default)
2	50%
3	55%

[2-32]= Forced, all time, power consumption limitation operation (no external control adaptor is required to perform power consumption limitation).

If the system always needs to be running under power consumption limitation conditions, this setting activates and defines the level power consumption limitation that will be applied continuously. The level is according to the table.

Default value=0 (OFF)

Value [2-32]	Restriction reference
0	Function not active (default)
1	Follows [2-30] setting
2	Follows [2-31] setting

Change [2-32]=0,1 or 2 in function of required limitation.

[2-49]= Max, level difference setting
In case the outdoor location is higher than indoor, extension is possible up till 90 m, Refer to [2-49] for dedicated setting.

Value [2-49]	Max, level difference setting
0	OFF(default)
1	ON

[2-81]= Cooling comfort setting for VRT control
Default value=1

Value [2-81]	Cooling comfort setting
0	Eco
1	Mild (default)
2	Quick
3	Powerful

Change [2-81]=0,1,2 or 3 in function of required limitation.

For more information and advice about the impact of these settings, see "15.3 Energy saving and optimum operation".

[2-83]= Master user interface allocation in case VRV indoor units and RA indoor units are used at the same time.

By changing setting [2-83], you can allow the VRV indoor unit to be the operation mode selector (system power OFF/ON is required after applying this setting).

- [2-83]=1 RA indoor unit has mode selection right (default setting).
- [2-83]=0 VRV indoor unit has mode selection right.

[2-95]= Eco level setting for VRT smart control.

Default value =0

Value [2-95]	Eco level setting
0	Standard (Default)
1	Middle
2	High

15.3 Energy saving and optimum operation

This VRV X cooling only system is equipped with two kinds of advanced energy saving functionality (VRT and VRT smart control). Detecting all connected indoor units type, advanced energy saving functionality type is selected automatically. Depending on the priority, emphasises can be put on energy saving or comfort level. Several parameters can be selected, resulting in the optimal balance between energy consumption and comfort for the particular application.

Several patterns are available and explained below. Modify the parameters to the needs of your building and to realize the best balance between energy consumption and comfort.

15.3.1 Four main operation methods are available:

- **Basic**

The refrigerant temperature is fixed independent from the situation. It corresponds to the standard operation which is known and can be expected from/under previous VRV systems:

- To activate this operation method under cooling operation: change field setting [2-23]=1 or disconnect the circuit between terminal on external control adaptor with [2-11]≠0.

- **Automatic for VRT control**

The refrigerant temperature is set depending on the outdoor ambient conditions. As such adjusting the refrigerant temperature to match the required load (which is also related to the outdoor ambient conditions).

E.g., when your system is operating in cooling, you do not need as much cooling under low outdoor ambient temperatures (e.g., 25°C) as under high outdoor ambient temperatures (e.g., 35°C). Using this idea, the system automatically starts increasing its refrigerant temperature, automatically reducing the delivered capacity and increasing the system's efficiency.

- This operation is selected automatically with checking connected indoor unit type.

- **Automatic for VRT smart control**

The refrigerant temperature is set depending on the required capacity sent from every indoor unit.

- This operation is selected automatically with checking connected indoor unit type.

- **Hi-sensible**

The refrigerant temperature is set higher (cooling) compared to basic operation. The focus under high sensible mode is comfort feeling for the customer. The selection method of indoor units is important and has to be considered as the available capacity is not the same as under basic operation. For details concerning to Hi-sensible applications, please contact your dealer.

- To activate this setting under cooling operation: change field setting [2-8] to the appropriate value, matching the requirements of the pre-designed system containing a high sensible solution.

Value [2-8]	T _e target
3	7
4	8
5	9
6	10
7	11

15.3.2 Several comfort settings are available in VRT control

For each of above modes, automatic and hi-sensible, a comfort level can be selected. The comfort level is related to the timing and the effort (energy consumption) which is put in achieving a certain room temperature by temporarily changing the refrigerant temperature to different values in order to achieve requested conditions more quickly.

- **Powerful**

Undershoot (during cooling operation) is allowed compared to the requested refrigerant temperature, in order to achieve the required room temperature very fast. The undershoot is allowed from the start up moment.

In case of cooling operation the evaporating temperature is allowed to go down to 3°C on temporary base depending on the situation.

When the request from the indoor units becomes more moderate, the system will eventually go to the steady state condition which is defined by the operation method above.

- To activate the powerful comfort setting under cooling operation, change field setting [2-81]=3.

- **Quick**

Undershoot (during cooling operation) is allowed compared to the requested refrigerant temperature, in order to achieve the required room temperature very fast. The undershoot is allowed from the start up moment.

In case of cooling operation the evaporating temperature is allowed to go down to 6°C on temporary base depending on the situation.

When the request from the indoor units becomes more moderate, the system will eventually go to the steady state condition which is defined by the operation method above.

- To activate the quick comfort setting under cooling operation, change field setting [2-81]=2.

- **Mild**

Undershoot (during cooling operation) is allowed compared to the requested refrigerant temperature, in order to achieve the required room temperature very fast. The undershoot is not allowed from the start up moment. The start up occurs under the condition which is defined by the operation mode above.

In case of cooling operation the evaporating temperature is allowed to go down to 6°C on temporary base depending on the situation.

When the request from the indoor units becomes more moderate, the system will eventually go to the steady state condition which is defined by the operation method above.

The start up condition is different from the powerful and quick comfort setting.

- To activate the mild comfort setting under cooling operation, change field setting [2-81]=1.

- **Eco**

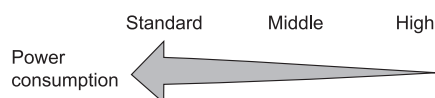
The original refrigerant temperature target, which is defined by the operation method (see above) is kept without any correction, unless for protection control.

- To activate the eco comfort setting under cooling operation, change field setting [2-81]=0.

No matter which control is selected, variations on the behaviour of the system are still possible due to protection controls to keep the unit operating under reliable conditions. The intentional target, however, is fixed and will be used to obtain the best balance between energy consumption and comfort, depending on the application type.

15.3.3 Several Eco-level setting are available for VRT Smart control

Eco level can be selected by field setting [2-95] and according to this setting, target T_e is decided using capacity requirement from all indoor units.



16. Test run

16.1 Test operation

After installation and once the field settings are defined, the installer is obliged to verify correct operation. Therefore a test run must be performed according to the procedures described below.

16.1.1 Precautions before starting test operation

During test operation, the outdoor unit and the indoor units will start up:

- Make sure that the preparations of all indoor units are finished (field piping, electrical wiring, air purge, ...). See installation manual of the indoor units for details.



CAUTION

Do not insert fingers, rods or other objects into the air inlet or outlet. When the fan is rotating at high speed, it will cause injury.



CAUTION

Do not perform the test operation while working on the indoor units.

When performing the test operation, not only the outdoor unit, but the connected indoor unit will operate as well. Working on an indoor unit while performing a test operation is dangerous.



CAUTION

- During tests never pressurize the appliances with a pressure higher than the maximum allowable pressure (as indicated on the nameplate of the unit).
- If refrigerant gas leaks, ventilate the area immediately. Toxic gas may be produced if refrigerant gas comes into contact with fire.
- Never directly touch any accidental leaking refrigerant. This could result in severe wounds caused by frostbite.



DANGER: Do not touch piping and internal parts.

See "2. General safety precautions".



DANGER: Electrical shock

See "2. General safety precautions".



INFORMATION

Note that during the first running period of the unit, required power input may be higher. This phenomenon originates from the compressor that requires a 50 hour run elapse before reaching smooth operation and stable power consumption. Reason is that the scroll is made out of iron and that it takes some time to smooth the surfaces that make contact.

16.1.2 Test operation

The procedure below describes the test operation of the complete system. This operation checks and judges following items:

- Check of wrong wiring (communication check with indoor units).
- Check of the stop valves opening.
- Judgement of piping length.

On top of this system test operation, indoor units operation should also be checked separately.

- Make sure to carry out the system test operation after the first installation. Otherwise, the malfunction code U3 will be displayed on the user interface and normal operation or individual indoor unit test run cannot be carried out.
- Abnormalities on indoor units cannot be checked for each unit separately. After the test operation is finished, check the indoor units one by one by performing a normal operation using the user interface. Refer to the indoor unit installation manual for more details concerning the individual test run.



INFORMATION

- It may take 10 minutes to achieve a uniform refrigerant state before the compressor starts.
- During the test operation, the refrigerant running sound or the magnetic sound of a solenoid valve may become loud and the display indication may change. These are not malfunctions.

Procedure

- 1 Close all front panels in order to not let it be the cause of misjudgement (except the electrical component box inspection opening service cover).
- 2 Make sure all field settings you want are set.
- 3 Turn ON the power to the outdoor unit and the connected indoor units.



NOTICE

Be sure to turn on the power 6 hours before operation in order to have power running to the crankcase heater and to protect the compressor.

- 4 Make sure the default (idle) situation is existing; see "13.2 Operating the push buttons and DIP switches on the logic board". Push BS2 for 5 seconds or more. The unit will start test operation.
 - The test operation is automatically carried out, the outdoor unit display will indicate "t01" and the indication "Test operation" and "Under centralized control" will display on the user interface of indoor units.

Steps during the automatic system test run procedure:

 - "t01": control before start up (pressure equalization)
 - "t02": cooling start up control
 - "t03": cooling stable condition
 - "t04": communication check
 - "t05": stop valve check
 - "t06": pipe length check
 - "t07": refrigerant amount check
 - "t08": in case [2-88]=0, detailed refrigerant situation check
 - "t09": pump down operation
 - "t10": unit stop
 - During the test operation, it is not possible to stop the unit operation from a user interface. To abort the operation, press BS3. The unit will stop after ±30 seconds.
- 5 Check the test operation results on the outdoor unit segment display.
 - Normal completion: no indication on the segment display (idle)
 - Abnormal completion: indication of malfunction code on the segment display

Refer to "16.1.3 Correcting after abnormal completion of the test operation" to take action for correcting the abnormality. When the test operation is fully completed, normal operation will be possible after 5 minutes.

16.1.3 Correcting after abnormal completion of the test operation

The test operation is only completed if there is no malfunction code displayed on the user interface or outdoor unit segment display. In case of a displayed malfunction code, perform correcting actions as explained in the malfunction code table. Carry out the test operation again and confirm that the abnormality is properly corrected.



INFORMATION

Refer to the installation manual of the indoor unit for other detailed malfunction codes related to indoor units.

16.2 Malfunction code list

In case of a displayed malfunction code, perform correcting actions as explained in the malfunction code table.

After correcting the abnormality, press BS3 to reset the malfunction code and retry operation.

The malfunction code which is displayed on the outdoor unit will indicate a main malfunction code and a sub code. The sub code indicates more detailed information about the malfunction code. The malfunction code will be displayed intermittent.

Example:

Main code	Sub code
E3	-01

With an interval of 1second, the display will switch between main code and sub code.

Below table gives an overview of the malfunction codes which may appear.

Main code	Malfunction code			Contents	Solution
	Master	Slave 1	Slave 2		
E3	01	03	05	High pressure switch was activated (S1PH) - A1P(X2A).	Check stop valve situation or abnormalities in (field) piping or airflow over air cooled coil.
	02	04	06	- Refrigerant overcharge. - Stop valve closed.	- Check refrigerant amount+recharge unit. - Open stop valve.
	13	14	15	Stop valve closed (liquid).	Open liquid stop valve.
	18			- Refrigerant overcharge. - Stop valve closed.	- Check refrigerant amount+recharge unit. - Open stop valve.
	20	21	22	High pressure switch was activated (S2PH) - A1P(X3A).	Check stop valve situation or abnormalities in (field) piping or airflow over air cooled coil.
E4	01	02	03	Low pressure malfunction : - Stop valve closed. - Refrigerant shortage. - Indoor unit malfunction.	- Open stop valve. - Check refrigerant amount+recharge unit. - Check the user interface's display or Transmission wiring between the outdoor unit and the indoor unit.
E9	01	05	08	Electronic expansion valve malfunction (main) (Y1E) - A1P(X21A).	Check connection on PCB or actuator.
	04	07	10	Electronic expansion valve malfunction (subcool) (Y2E) - A1P(X22A).	Check connection on PCB or actuator.
	26	27	28	Electronic expansion valve malfunction (refrigerant auto charge) (Y4E) - A1P(X25A).	Check connection on PCB or actuator.
F3	01	03	05	Discharge temperature too high (R21T/R22T) : - Stop valve closed. - Refrigerant shortage.	- Open stop valve. - Check refrigerant amount+recharge unit.
	20	21	22	Compressor casing temperature too high (R8T/R9T) : - Stop valve closed. - Refrigerant shortage.	- Open stop valve. - Check refrigerant amount+recharge unit.
F6	02			- Refrigerant overcharge. - Stop valve closed.	- Check refrigerant amount+recharge unit. - Open stop valve.
H9	01	02	03	Ambient temperature sensor malfunction (R1T) - A1P(X18A).	Check connection on PCB or actuator.
J3	16	22	28	Discharge temperature sensor malfunction (R21T): open circuit - A1P (X19A).	Check connection on PCB or actuator.
	17	23	29	Discharge temperature sensor malfunction (R21T): short circuit - A1P (X19A).	Check connection on PCB or actuator.
	18	24	30	Discharge temperature sensor malfunction (R22T): open circuit - A1P (X19A).	Check connection on PCB or actuator.
	19	25	31	Discharge temperature sensor malfunction (R22T): short circuit - A1P (X19A).	Check connection on PCB or actuator.
	38	42	44	Compressor casing temperature sensor malfunction (R9T): open circuit - A1P (X19A).	Check connection on PCB or actuator.
	39	43	45	Compressor casing temperature sensor malfunction (R9T): short circuit - A1P (X19A).	Check connection on PCB or actuator.
	47	49	51	Compressor casing temperature sensor malfunction (R8T): open circuit - A1P (X19A).	Check connection on PCB or actuator.
	48	50	52	Compressor casing temperature sensor malfunction (R8T): short circuit - A1P (X19A).	Check connection on PCB or actuator.
J5	01	03	05	Suction temperature sensor malfunction (R3T) - A1P (X30A).	Check connection on PCB or actuator.
J7	06	07	08	Liquid temperature sensor (after subcool HE) malfunction (R5T) - A1P (X30A).	Check connection on PCB or actuator.
J8	01	02	03	Liquid temperature sensor (coil) malfunction (R4T) - A1P (X30A).	Check connection on PCB or actuator.
J9	01	02	03	Gas temperature sensor (after subcool HE) malfunction (R6T) - A1P (X30A).	Check connection on PCB or actuator.
JR	06	08	10	High pressure sensor malfunction (S1NPH): open circuit - A1P (X32A).	Check connection on PCB or actuator.
	07	09	11	High pressure sensor malfunction (S1NPH): short circuit - A1P (X32A).	Check connection on PCB or actuator.
JL	06	08	10	Low pressure sensor malfunction (S1NPL): open circuit - A1P (X31A).	Check connection on PCB or actuator.
	07	09	11	Low pressure sensor malfunction (S1NPL): short circuit - A1P (X31A).	Check connection on PCB or actuator.
LL	14	15	16	Transmission outdoor unit - inverter: INV1 transmission trouble - A1P (X20A, X28A, X40A).	Check connection.
	19	20	21	Transmission outdoor unit - inverter: FAN1 transmission trouble - A1P (X20A, X28A, X40A).	Check connection.
	24	25	25	Transmission outdoor unit - inverter: FAN2 transmission trouble - A1P (X20A, X28A, X40A).	Check connection.
	30	31	32	Transmission outdoor unit - inverter: INV2 transmission trouble - A1P (X20A, X28A, X40A).	Check connection.

Malfunction code				Contents	Solution
Main code	Sub code				
	Master	Slave 1	Slave 2		
P1	01	02	03	INV1 unbalanced power supply voltage.	Check if power supply is within range.
	07	08	09	INV2 unbalanced power supply voltage.	Check if power supply is within range.
U2	01	08	11	INV1 voltage power shortage.	Check if power supply is within range.
	02	09	12	INV1 power phase loss.	Check if power supply is within range.
	22	25	28	INV2 voltage power shortage.	Check if power supply is within range.
	23	26	29	INV2 power phase loss.	Check if power supply is within range.
U3	02			Warning indication: Leak detection or refrigerant amount check not performed (system operation possible).	Execute system test run.
	03			Malfunction code: System test run not yet executed (system operation not possible).	Execute system test run.
	10			Malfunction code: System refrigerant auto charge run not yet executed.	Execute auto charge function (see manual).
	04			System test run abnormal ending.	Execute test run again.
U4	01			Faulty wiring to indoor - outdoor.	Check (F1/F2) wiring.
	03			Faulty indoor system.	Check indoor system transmissions wire.
U7	01			Warning: faulty wiring to Q1/Q2.	Check (Q1/Q2) wiring.
	02			Malfunction code: faulty wiring to Q1/Q2.	Check (Q1/Q2) wiring.
	11			• Too many indoor units are connected to F1/F2 line. • Bad wiring between outdoor and indoor units.	Check indoor unit amount and total capacity connected.
U9	01			• System mismatch. Wrong type of indoor units combined (R-410A, R407C, RA). • Indoor unit malfunction.	Check if other indoor units have malfunction and confirm indoor unit mix is allowed.
UR	03			Connection malfunction over indoor units or type mismatch (R-410A, R407C, RA).	Check if other indoor units have malfunction and confirm indoor unit mix is allowed.
	18			Connection malfunction over indoor units or type mismatch (R-410A, R407C, RA).	Check if other indoor units have malfunction and confirm indoor unit mix is allowed.
	31			Wrong unit combination (multi system).	Check if unit types are compatible.
	49			Wrong unit combination (multi system).	Check if unit types are compatible.
UH	01			Auto address malfunction (inconsistency).	Check if transmission wired unit amount matches with powered unit amount (by monitor mode) or wait till initialization is finished.
UF	01			Auto address malfunction (inconsistency).	Check if transmission wired unit amount matches with powered unit amount (by monitor mode) or wait till initialization is finished.
	05			Stop valve closed or wrong (during system test run).	Open stop valves.



INFORMATION

References can be found on the wiring diagram.

Information code	Contents	Solution
Main code		
Leak detection function related.		
E-1	Unit is not prepared to execute leak detection operation.	Refer to requirements to be able to execute leak detection operation.
E-2	Indoor unit is out of temperature range for leak detection operation.	Retry when ambient conditions are satisfied.
E-3	Outdoor unit is out of temperature range for leak detection operation.	Retry when ambient conditions are satisfied.
E-4	Too low pressure was noticed during leak detection operation	Restart leak detection operation.
E-5	Indicates an indoor unit which is not compatible with leak detection functionality is installed.	Refer to requirements to be able to execute leak detection operation.
Auto charging related.		
P2	Unusual low pressure on suction line.	Close valve C immediately. Push BS3 to reset. Check following items before retrying auto charge procedure: • Check if the gas side stop valve is opened correctly. • Check if the valve of the refrigerant cylinder is opened. • Check if the air inlet and outlet of the indoor unit are not obstructed.
P8	Freeze-up prevention indoor unit.	Close valve C immediately. Push BS3 to reset. Retry auto charge procedure.
PE	Automatic charging nearly finished.	Prepare for auto charge stopping.
P9	Automatic charging finished.	Finish auto charge mode.

17. Operation of the unit

Once the unit is installed and test operation of outdoor unit and indoor units is finished, the operation of the system can start.

For operating the indoor unit, the user interface of the indoor unit should be switched ON. Refer to the indoor unit operation manual for more details.

18. Caution for refrigerant leaks

18.1 Introduction

The installer and system specialist shall secure safety against leakage according to local regulations or standards. The following standards may be applicable if local regulations are not available.

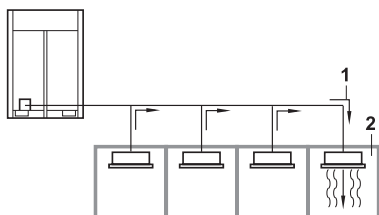
This system uses R-410A as refrigerant. R-410A itself is an entirely safe non-toxic, non-combustible refrigerant. Nevertheless care must be taken to ensure that air conditioning facilities are installed in a room which is sufficiently large. This assures that the maximum concentration level of refrigerant gas is not exceeded, in the unlikely event of major leak in the system and this in accordance to the local applicable regulations and standards.

18.2 Maximum concentration level

The maximum charge of refrigerant and the calculation of the maximum concentration of refrigerant is directly related to the humanly occupied space in to which it could leak.

The unit of measurement of the concentration is kg/m^3 (the weight in kg of the refrigerant gas in 1m^3 volume of the occupied space).

Compliance to the local applicable regulations and standards for the maximum allowable concentration level is required.



- 1 Direction of the refrigerant flow
- 2 Room where refrigerant leak has occurred (outflow of all the refrigerant from the system)

Pay special attention to places, such as basements etc., where refrigerant can stay, since refrigerant is heavier than air.

18.3 Procedure for checking maximum concentration

Check the maximum concentration level in accordance with steps 1 to 4 below and take whatever action is necessary to comply.

- 1 Calculate the amount of refrigerant (kg) charged to each system separately.

Amount of refrigerant in a single unit system (amount of refrigerant with which the system is charged before leaving the factory)	+	Additional charging amount (amount of refrigerant added locally in accordance with the length or diameter of the refrigerant piping)	=	Total amount of refrigerant (kg) in the system
--	---	---	---	--



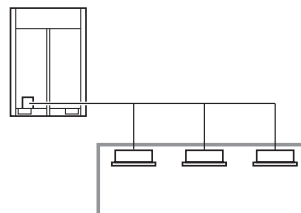
NOTICE

Where a single refrigerant facility is divided into 2 entirely independent refrigerant systems, use the amount of refrigerant with which each separate system is charged.

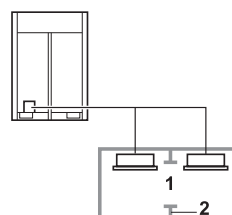
- 2 Calculate the volume of the room (m^3) where the indoor unit is installed.

In a case such as the following, calculate the volume of (A), (B) as a single room or as the smallest room.

- A Where there are no smaller room divisions:



- B Where there is a room division, but there is an opening between the rooms sufficiently large to permit a free flow of air back and forth.



- 1 Opening between the rooms
- 2 Partition
(Where there is an opening without a door or where there are openings above and below the door which are each equivalent in size to 0.15% or more of the floor area.)

- 3 Calculating the refrigerant density using the results of the calculations in steps 1 and 2 above.

Total volume of refrigerant in the refrigerant system Size (m^3) of smallest room in which there is an indoor unit installed	$\leq$	Maximum concentration level (kg/m^3)
--	--------	--

If the result of the above calculation exceeds the maximum concentration level, a ventilation opening to the adjacent room shall be made.

- 4 After opening to the adjacent room are made, re-calculate. If result of calculation exceeds the maximum concentration level. Room re-modified are required, please contact your dealer.

4. REFNET Pipe System

4.1 Layout Example

4.1.1 Cooling Only

Use of the particular branch fitting appropriate to each individual unit type not only permits the pipes to be laid with ease but also increases the reliability of the system as a whole.

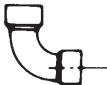
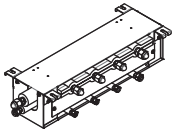
Type of fitting	Sample systems
Line branch fitting (Pipes containing only REFNET joints)	
Header branch fitting (Piping consists of only HEADER PACK)	
Mixed branch fittings (Piping including both REFNET Joints and HEADER PACK)	

Units can be added by connecting them directly to the REFNET joint or HEADER PACK. Further branches cannot be included in the system below the HEADER PACK branch.

Note:

1. When the capacity ratio of the indoor system to the outdoor unit is more than 100% and when all the indoor units are in operation at the same time then the rated capacity of each unit will be somewhat reduced.
2. Special purpose REFNET pipe components must be used for all the pipe work. For further details concerning choosing components, see the installation manual.
3. The Daikin REFNET kits are supplied with insulation intended to fit over the main body of the REFNET joint after installation of the REFNET kit is complete.

4.2 Equivalent Piping Length (Reference)

Pipe size* (mm)	φ6.4	φ9.5	φ12.7	φ15.9	φ19.1	φ22.2	φ25.4	φ31.8	φ34.9	φ38.1	φ41.3
L Joints 	0.16	0.18	0.20	0.25	0.35	0.40	0.45	0.55	0.60	0.65	0.75
REFNET joint 	0.5										
HEADER PACK 	1.0										

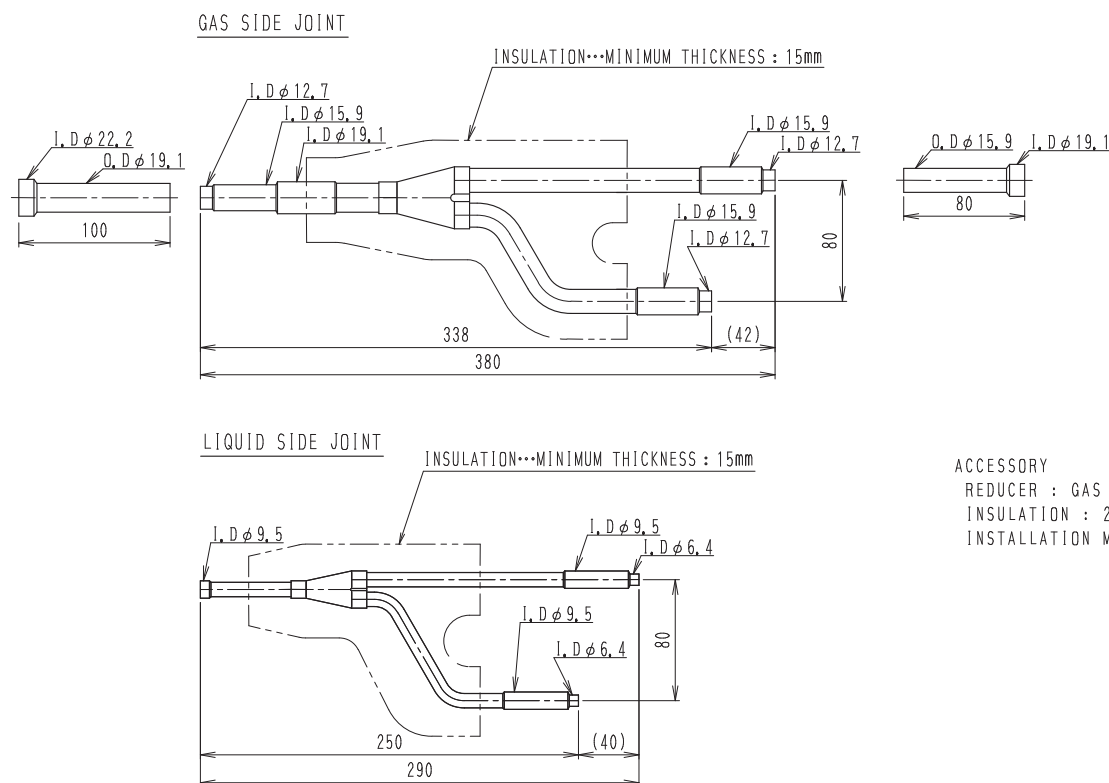
* When the equivalent piping length in cooling operation is calculated, the gas pipe size is selected.
When the equivalent piping length in heating operation is calculated, the liquid pipe size is selected.

5. Branch Kit and Multi Connection Piping Kit

5.1 REFNET Joint (Branch Kit)

KHRP26A22T6

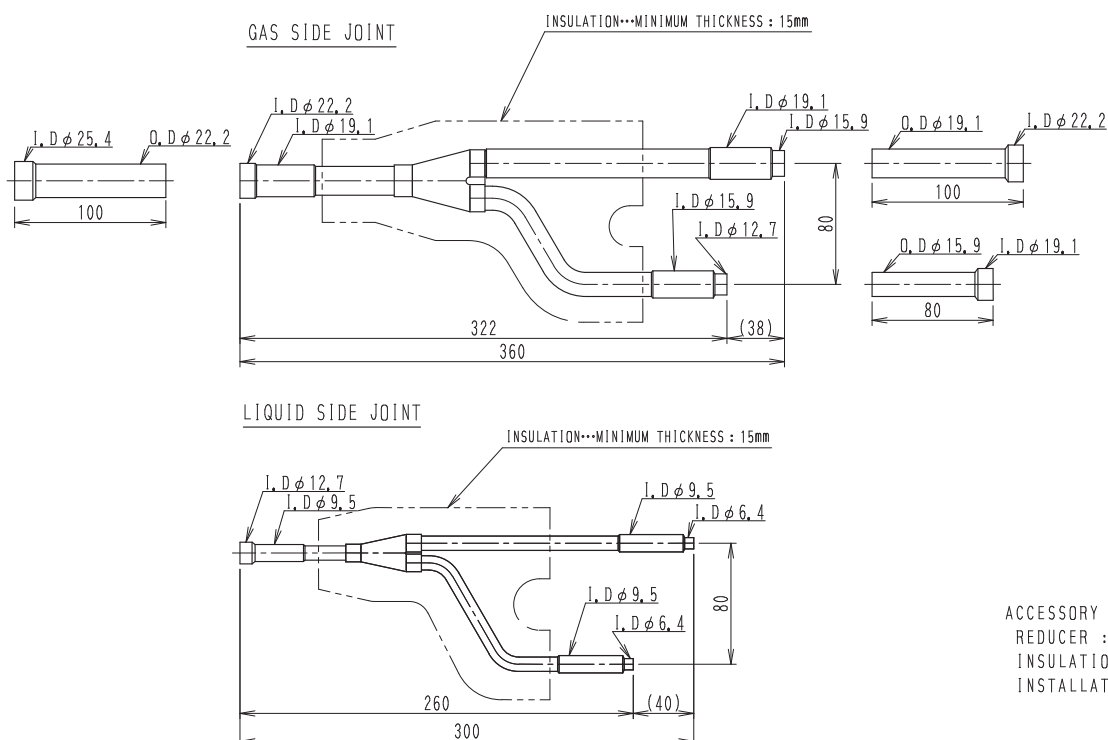
Unit: mm



C: D3K05234B

KHRP26A33T6

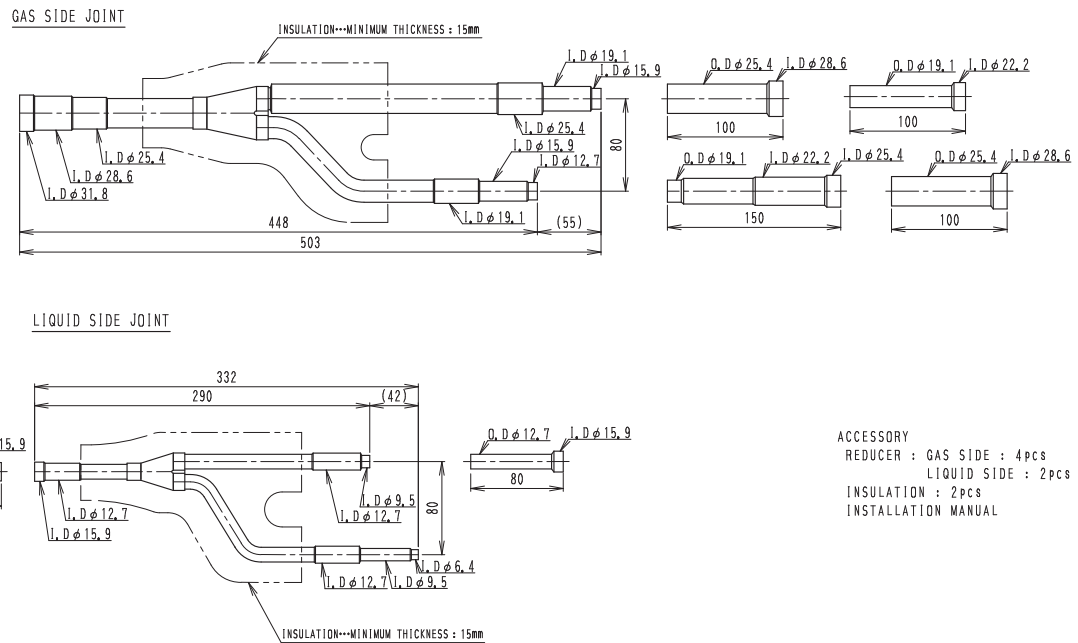
Unit: mm



C: D3K05235C

KHRP26A72T6

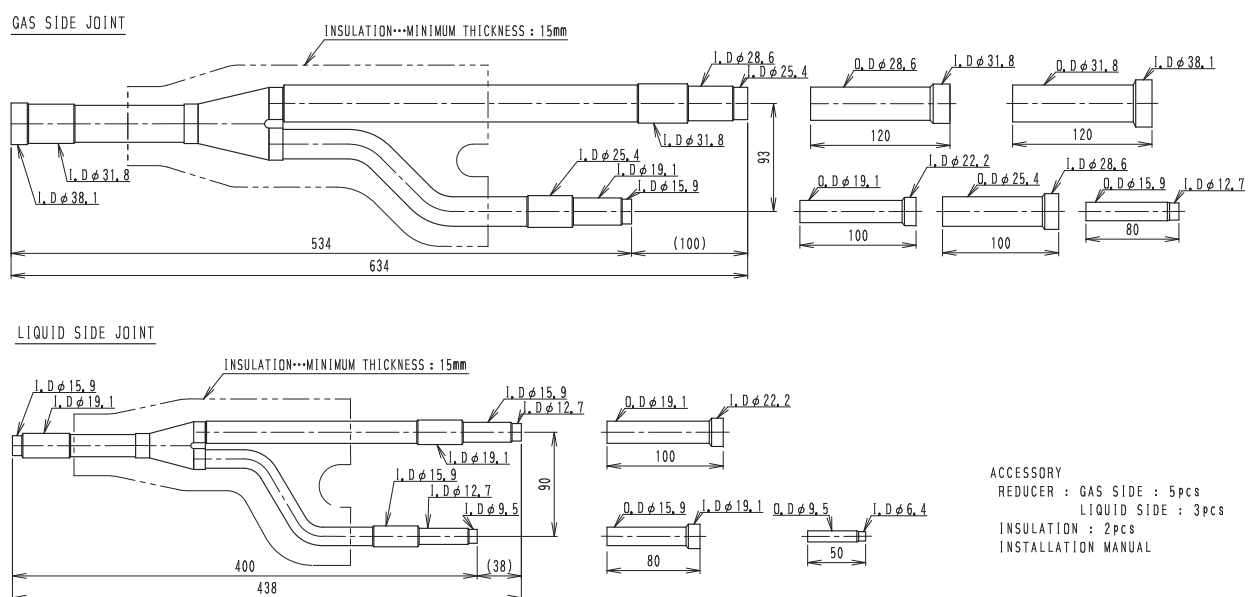
Unit: mm



C: D3K05236B

KHRP26A73T6

Unit: mm



C: D3K05237B

KHRP26A22T6 / KHRP26A33T6 / KHRP26A72T6 / KHRP26A73T6

REFNET JOINT INSTALLATION MANUAL

KHRP26A22T6 • 33T6 • 72T6 • 73T6(FOR R410A)

■ THIS KIT INCLUDES THE FOLLOWING PARTS.

KIT NAME	GAS SIDE JOINT	LIQUID SIDE JOINT	S H A P E		REDUCER(FOR GAS PIPE)		REDUCER(FOR LIQUID PIPE)
			INSULATION	INSULATION			
			GAS	LIQUID			
KHRP26A 22T							
KHRP26A 33T							
KHRP26A 72T							
KHRP26A 73T							

※---Make sure gas side joint and liquid side joint are for R410A. (Label for R410A is attached on each part.)

SELECTION PROCEDURE

According to the INSTALLATION MANUAL of outdoor unit.

INSTALLATION PROCEDURE

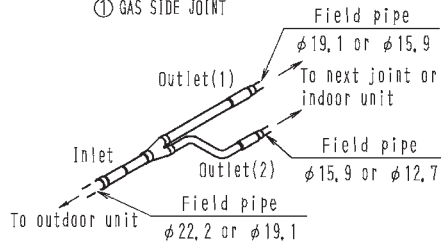
① The pipe size of each parts are shown below.

KIT NAME	GAS SIDE JOINT	LIQUID SIDE JOINT
KHRP26A 22T		
KHRP26A 33T		
KHRP26A 72T		
KHRP26A 73T		

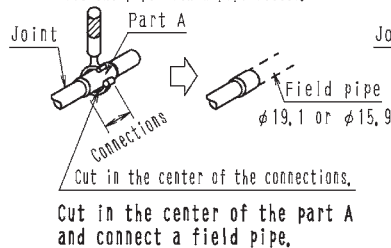
② According to SELECTION PROCEDURE, cut the pipe with a pipe cutter for use.

• (Ex.) FOR KHRP26A33T

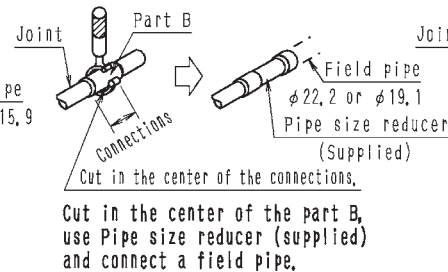
① GAS SIDE JOINT



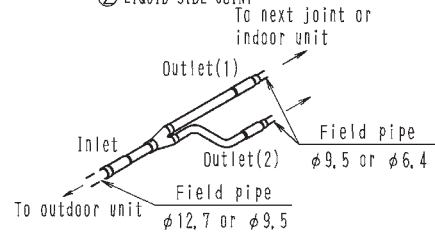
Note) For the size of inlet is $\phi 19,1$ or the size of outlet(1) is $\phi 19,1$, the size of outlet(2) is $\phi 15,9$.
 • Cut the pipe with a pipe cutter.



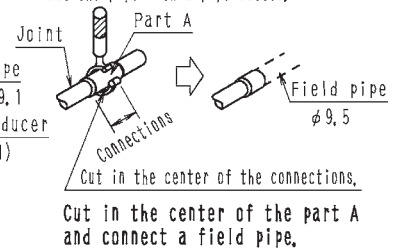
Note) For the size of outlet(1) is $\phi 22,2$ or the size of outlet(2) is $\phi 19,1$.



② LIQUID SIDE JOINT



Note) For the size of inlet is $\phi 9,5$ or the size of outlet(1) is $\phi 9,5$, the size of outlet(2) is $\phi 9,5$.
 • Cut the pipe with a pipe cutter.



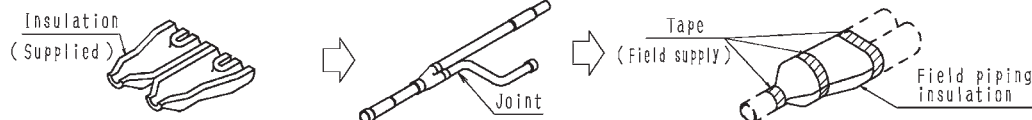
• Make sure to flow nitrogen gas through the pipe when brazing.

③ Insulation of Joint - Be sure to insulate the gas and liquid side Joint.

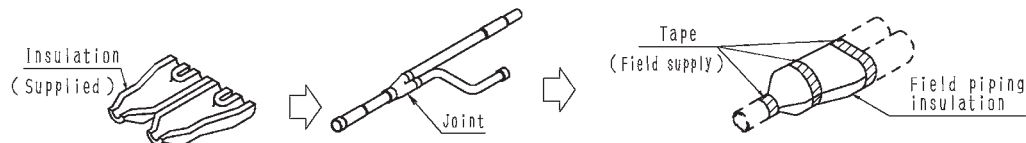
Note) The insulation of the refrigerant piping must be reinforced based on the environment of installation. Otherwise, dew may condensate on the surface of the insulation. For details, see Engineering Data.

GAS SIDE

- Set the insulation matching the joint and wind the field supplied tape from the center without any clearances on the matching face of insulation.
- Seal the insulation and field piping insulation joint with the field supplied tape.

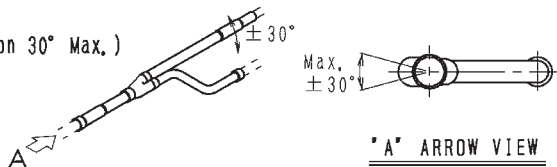


LIQUID SIDE • Insulate by the same method as gas side joint.



INSTALLATION PRECAUTIONS

- Install the Joint so that it is branched vertically or horizontally.
 Horizontal
 (Inclination 30° Max.)

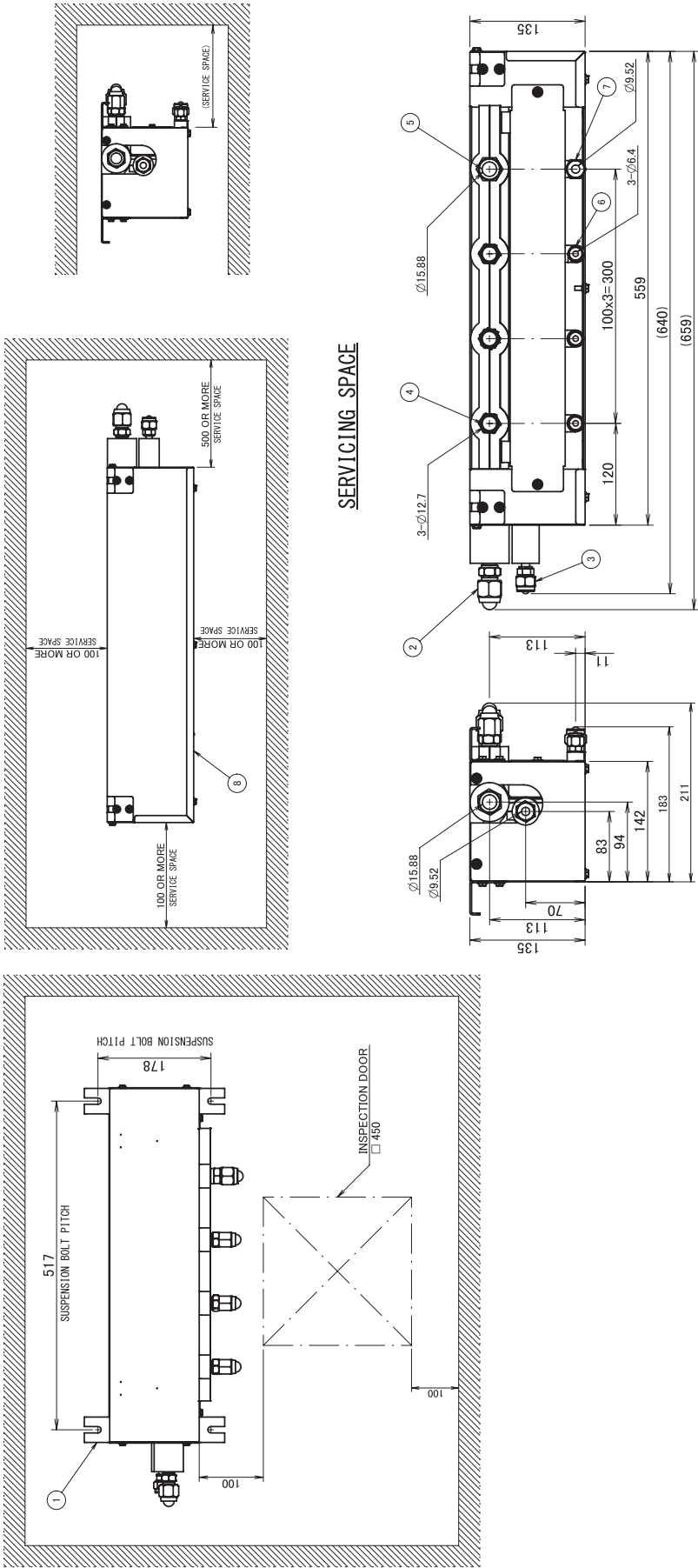


- Do not apply extra force on the piping part. The brazed part may be damaged and it may result in gas leakage.

5.2 HEADER PACK (Branch Kit)

BHF6RHP6Z

Unit: mm



S.No.	Part Name	Qty.	Remark
1	Hanger Metal(for suspension Bolt)	4	M8, M10
2	Outdoor Unit Gas Pipe Connection Port	1	Ø15.88
3	Outdoor Unit Liquid Pipe Connection Port	1	Ø9.52
4	Indoor Unit Gas connection pipe Port	3	Ø12.7
5	Indoor Unit Gas connection pipe Port	1	Ø15.88
6	Indoor Unit Liquid connection pipe Port	3	Ø6.4
7	Indoor Unit Liquid connection pipe Port	1	Ø9.52
8	Bottom Plate For servicing	1	M5 Screws

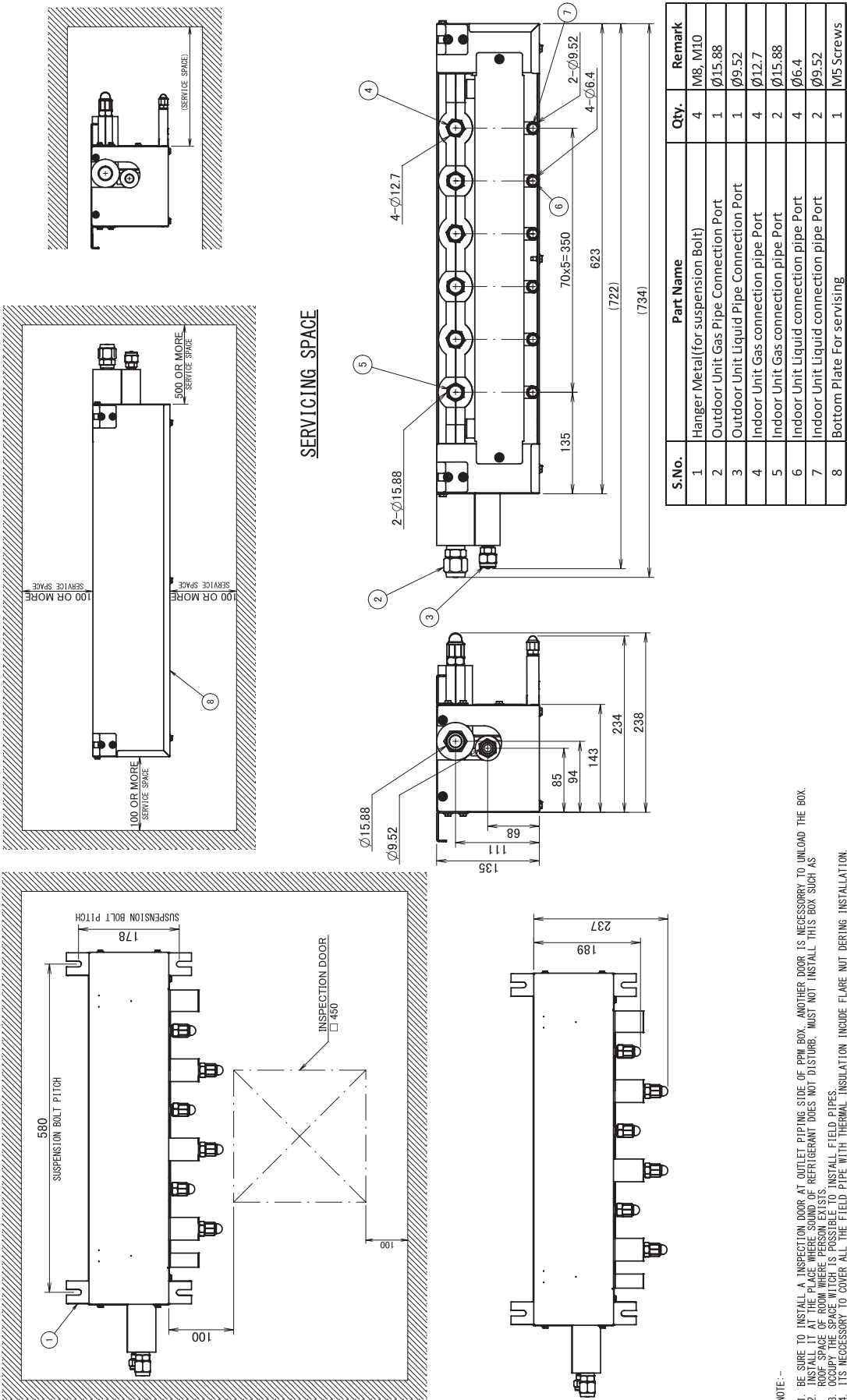
NOTE :-

- BE SURE TO INSTALL A INSPECTION DOOR AT OUTLET PIPING SIDE OF RPH BOX. ANOTHER DOOR IS NECESSARY TO UNLOAD THE BOX.
- BE SURE TO INSTALL A INSPECTION DOOR AT OUTLET PIPING SIDE OF RPH BOX. ANOTHER DOOR IS NECESSARY TO UNLOAD THE BOX.
- BE SURE TO INSTALL A INSPECTION DOOR AT OUTLET PIPING SIDE OF RPH BOX. ANOTHER DOOR IS NECESSARY TO UNLOAD THE BOX.
- BE SURE TO INSTALL A INSPECTION DOOR AT OUTLET PIPING SIDE OF RPH BOX. ANOTHER DOOR IS NECESSARY TO UNLOAD THE BOX.
- BE SURE TO INSTALL A INSPECTION DOOR AT OUTLET PIPING SIDE OF RPH BOX. ANOTHER DOOR IS NECESSARY TO UNLOAD THE BOX.

3D125108

BHF6ARHP6Z

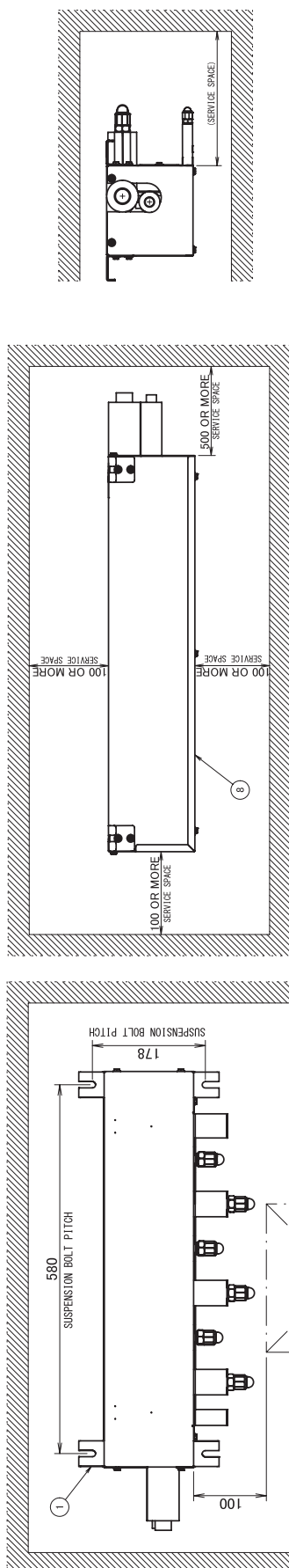
Unit: mm



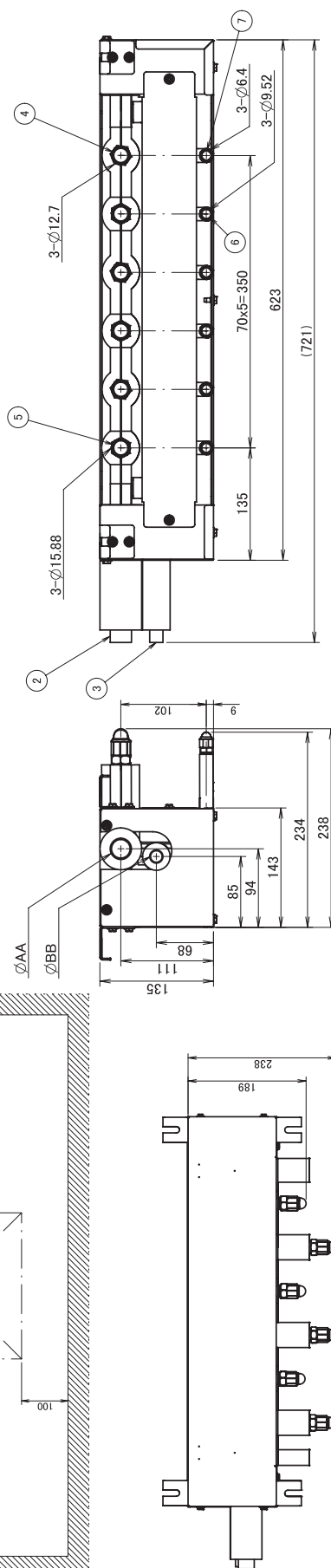
3D125137

BHF8RHP6Z / BHF10RHP6Z / BHF16RHP6Z

Unit: mm



SERVICING SPACE



S.No.	Part Name	Qty.	Remark
1	Hanger Metal((for suspension Bolt)	4	M8, M10
2	Outdoor Unit Gas Pipe Connection Port	1	ØAA
3	Outdoor Unit Liquid Pipe Connection Port	1	ØBB
4	Indoor Unit Gas connection pipe Port	3	Ø12.7
5	Indoor Unit Gas connection pipe Port	3	Ø15.88
6	Indoor Unit Liquid connection pipe Port	3	Ø9.52
7	Indoor Unit Liquid connection pipe Port	3	Ø6.4
8	Bottom Disha Encapsulation	1	M5 Screws

MODEL	AA	BB
BHF8RHP6(Z)	19.1	9.52
BHF10RHP6(Z)	22.2	9.52
BHF16RHP6(Z)	28.6	12.7

NOTE:-

1. BE SURE TO INSTALL AN INSPECTION DOOR AT OUTLET PIPING SIDE OF PHM BOX. ANOTHER DOOR IS NECESSARY TO UNLOAD THE BOX.
2. INSURE THAT THE PLACE WHERE SOUND OF REFRIGERANT DOES NOT DISTURB MUST NOT INSTALL THIS BOX SUCH AS
3. KITCHEN, BATH, BED ROOM, ETC.
4. OCCUPY THE SPACE WHICH IS POSSIBLE TO INSTALL FIELD PIPES
5. IT'S NECESSARY TO COVER ALL THE FIELD PIPE WITH THERMAL INSULATION INSIDE FLARE NUT DURING INSTALLATION
6. REMOVE BOTTOM PLATE OF BOX FOR INSIDE SERVICING BY REMOVING 56 SCREWS.

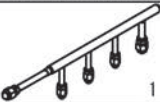
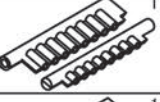
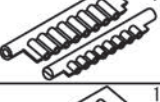
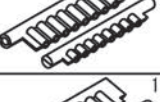
3D125136A

BHF6RHP6Z / BHF6ARHP6Z / BHF8RHP6Z / BHF10RHP6Z / BHF16RHP6Z

REFNET HEADER INSTALLATION MANUAL

BHF6ARHP6(Z), BHF6RHP6(Z), BHF8RHP6(Z), BHF10RHP6(Z), BHF16RHP6(Z) (R-410A)

◆ THIS KIT INCLUDES THE FOLLOWING PARTS

KIT NAME	SHAPE		
	GAS SIDE HEADER	LIQUID SIDE HEADER	HEADER INSULATION
BHF6RHP6 BHF6RHP6Z	 1 PCS.	 1 PCS.	 1 each for Gas & Liquid
BHF6ARHP6 BHF6ARHP6Z	 1 PCS.	 1 PCS.	 1 each for Gas & Liquid
BHF8RHP6 BHF8RHP6Z	 1 PCS.	 1 PCS.	 1 each for Gas & Liquid
BHF10RHP6 BHF10RHP6Z	 1 PCS.	 1 PCS.	 1 each for Gas & Liquid
BHF16RHP6 BHF16RHP6Z	 1 PCS.	 1 PCS.	 1 each for Gas & Liquid

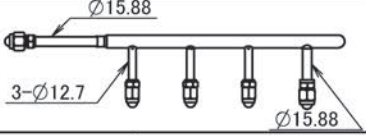
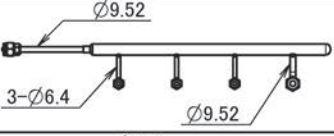
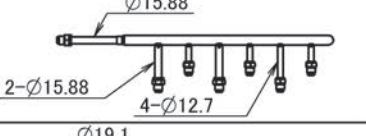
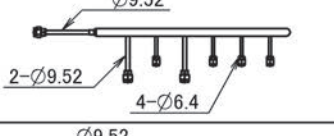
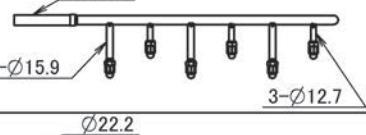
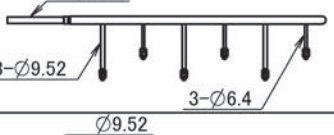
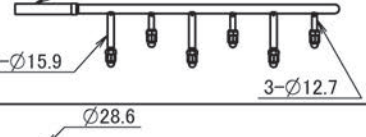
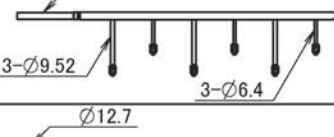
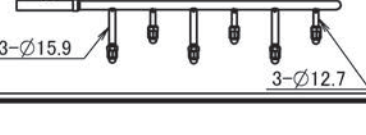
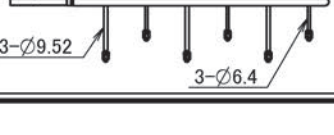
★ Make sure gas side header & liquid side header are for R-410A. (Label for R-410A is attached on box)

SELECTION PROCEDURE

According to the INSTALLATION MANUAL of outdoor unit.

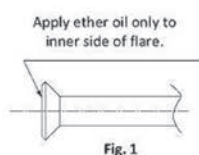
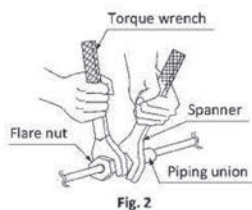
INSTALLATION PROCEDURE

① The pipe size of each part are shown below.

KIT NAME	GAS SIDE HEADER	LIQUID SIDE HEADER
BHF6RHP6 BHF6RHP6Z		
BHF6ARHP6 BHF6ARHP6Z		
BHF8RHP6 BHF8RHP6Z		
BHF10RHP6 BHF10RHP6Z		
BHF16RHP6 BHF16RHP6Z		

- ② For the Outlet/ inlet Piping which can be connected to several piping sizes, Flare the Field Pipe according to the Pipe size connected to header Outlet, according to the table 2.

- When connecting or disconnecting piping to or from the unit, be sure to use two spanners and two torque wrenches. (Refer to Fig. 2)
- Apply ether oil or ester oil only to inner side of the flare and screw in the flare nut three to four turns first by hand at the time of connecting the flare nut. (Refer to Fig. 1)



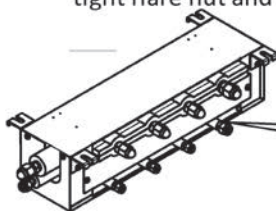
- Perform the curing of the piping with pinching or taping of the piping in order to prevent the intrusion of dirt, dust, and moisture into the piping.
- Do not excessively tighten the flare nut.
- Refer to Table 2 for the corresponding tightening torque.

Table 2

Pipe size	Tightening torque	Flare dimensions A (mm)	Flare shape
φ 6.4	14.2 – 17.2N·m	8.7 – 9.1	
φ 9.5	32.7 – 39.9N·m	12.8 – 13.2	
φ 12.7	49.5 – 60.3N·m	16.2 – 16.6	
φ 15.9	61.8 – 75.4N·m	19.3 – 19.7	

③ Flare Nut Tightning During Installation

Refnet header box union and flare nut are only tight by hand so tight flare nut and union properly if not connected to field pipe as shown in below.



●Capacity Index Table

Model Code	Piping Connections(Liquid/Gas) mm		Indoor Unit Total Capacity Index
	Outdoor Unit Side	Indoor Unit Side	
BHF6RHP6(Z)	Ø9.5/Ø15.9	(Ø9.5/Ø15.9)X1, (Ø6.4/Ø12.7)X3	<150
BHF6ARHP6(Z)	Ø9.5/Ø15.9	(Ø9.5/Ø15.9)X2, (Ø6.4/Ø12.7)X4	<150
BHF8RHP6(Z)	Ø9.5/Ø19.1	(Ø9.5/Ø15.9)X3, (Ø6.4/Ø12.7)X3	150 ≤ X < 200
BHF10RHP6(Z)	Ø9.5/Ø22.2	(Ø9.5/Ø15.9)X3, (Ø6.4/Ø12.7)X3	200 ≤ X < 290
BHF16RHP6(Z)	Ø12.7/Ø28.6	(Ø9.5/Ø15.9)X3, (Ø6.4/Ø12.7)X3	290 ≤ X < 420

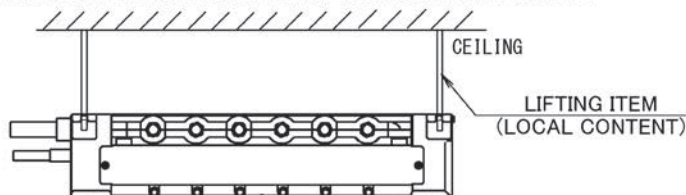
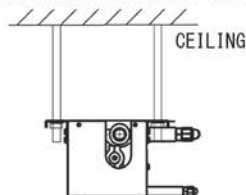
- Only one size up is possible for connection piping (Ø6.4/Ø12.7) . But, within 100mm from the Union edge (Indoor side).

INSTALLATION PRECAUTIONS

Do not apply extra force on the header pipe . The brazed part may be damage & it may result gas leakage.

PPM BOX KIT

- Suspend the header from the ceiling and be sure to install it so that the outlet/inlet pipings at the header indoor unit side are horizontal at the lower side as shown below.



5.3 Reducer KHRP26M73TP6

PIPE SIZE REDUCER (For R410A)

KHRP26M73TP • 73HP
KHRP25M72TP • 73TP • 72HP

■ THIS KIT INCLUDES THE FOLLOWING PARTS.

	PIPE SIZE REDUCER①	PIPE SIZE REDUCER②	PIPE SIZE REDUCER③	PIPE SIZE REDUCER④	PIPE SIZE REDUCER⑤
SHAPE					
QUANTITY	KHRP26M73TP	1 pc.	1 pc.	2 pc.	—
	KHRP26M73HP	1 pc.	—	1 pc.	—
	KHRP25M72TP	—	—	—	1 pc.
	KHRP25M72HP	—	—	—	1 pc.
	KHRP25M73TP	1 pc.	1 pc.	3 pc.	1 pc.

■ THIS KIT IS THE REDUCER OF THE BRANCH PIPING KIT(REFNET JOINT • HEADER). CHECK THE PROPER MODEL OF THE BRANCH PIPING KIT.

KIT NAME	BRANCH PIPING KIT
KHRP26M73TP	KHRP26M73T(GAS SIDE)
KHRP26M73HP	KHRP26M73H(GAS SIDE) • KHRP25M73H(SUCTION GAS SIDE)
KHRP25M72TP	KHRP25M72T(DISCHARGE GAS SIDE)
KHRP25M72HP	KHRP25M72T(DISCHARGE GAS SIDE) • KHRP25M72H(SUCTION, DISCHARGE, HP/LP GAS SIDE)
KHRP25M73TP	KHRP25M73T(SUCTION, DISCHARGE GAS SIDE)

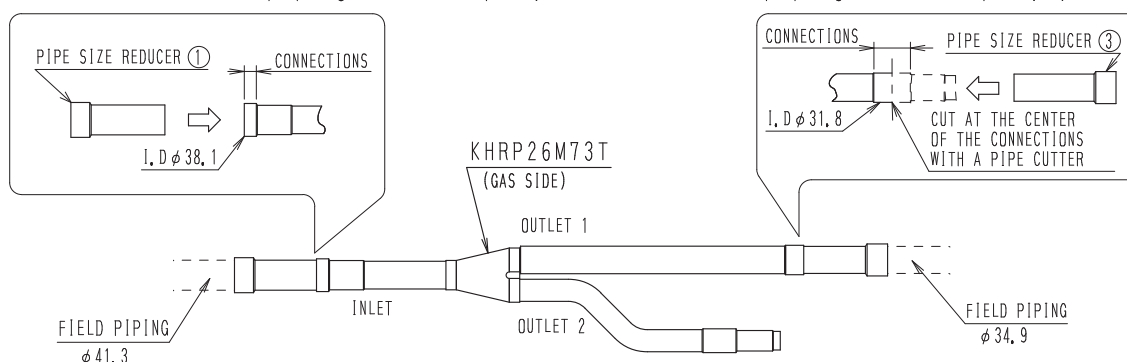
INSTALLATION PROCEDURE

REFER TO THE INSTALATION MANUAL OF
THE BRANCH PIPING KIT.

■ JOINT SIZE ARE AS FOLLOWS.

PIPE SIZE REDUCER①	PIPE SIZE REDUCER②	PIPE SIZE REDUCER③
PIPE SIZE REDUCER④	PIPE SIZE REDUCER⑤	

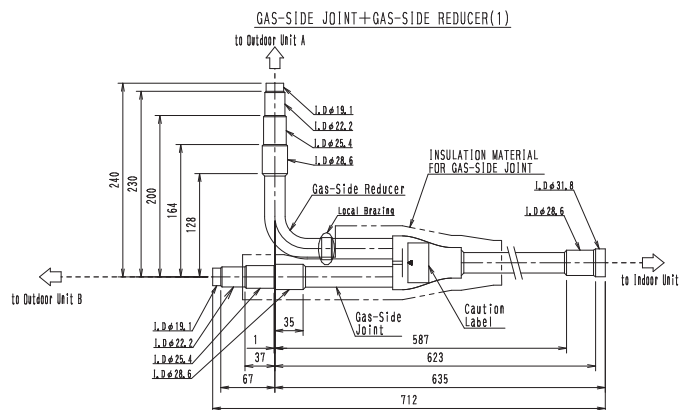
- (1) Select the field piping size according to the installation manual of the outdoor unit.
- (2) Connect the PIPE SIZE REDUCER suitable for the field piping size to the branch piping kit.
ex.) Connect the reducers to the branch piping kit, KHRP26M73T.
• For inlet piping size is $\phi 41.3$ and outlet 1 piping size is $\phi 34.9$.



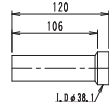
5.4 Outdoor Unit Multi Connection Piping Kit BHFP22P1006

Gas side

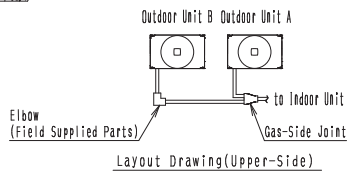
Unit: mm



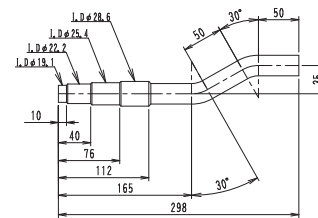
GAS-SIDE REDUCER (2) (φ31, 8)

**Accessory**

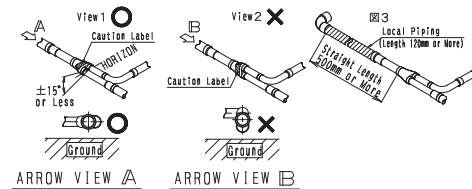
GAS-SIDE JOINT : 1
 LIQUID-SIDE JOINT : 1
 GAS-SIDE REDUCER (1) : 1
 GAS-SIDE REDUCER (2) : 1
 GAS-SIDE REDUCER (3) : 1
 GAS-SIDE REDUCER (7) : 1
 GAS-SIDE REDUCER (9) : 1
 LIQUID-SIDE REDUCER (1) : 1
 LIQUID-SIDE REDUCER (3) : 1
 LIQUID-SIDE REDUCER (5) : 1
 INSULATION MATERIAL FOR GAS-SIDE JOINT : 1
 INSULATION MATERIAL FOR LIQUID-SIDE JOINT : 1
 INSULATION MATERIAL FOR GAS-SIDE PIPE : 1
 INSULATION MATERIAL FOR LIQUID-SIDE PIPE : 1
 INSTALLATION MANUAL



Gas-Side Reducer (3) (φ25, 4)



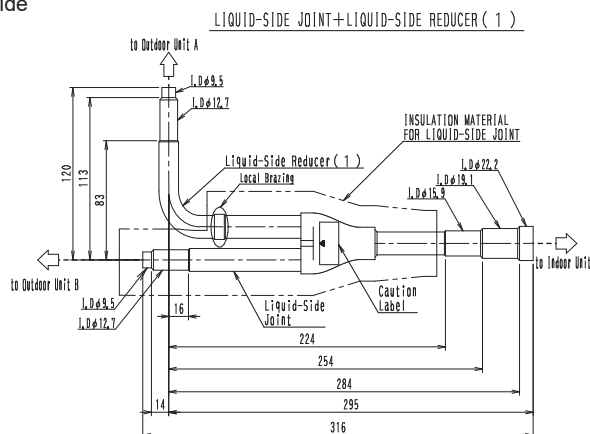
NOTE) 1. "-----" in the figure show field supply piping.
 2. About size of connection pipe refer the "engineering data of VHV III".
 3. In case of install this kit observe follow conditions.
 • Do not tilt the joint more than $\pm 15^\circ$.
 Install the joint horizontally so that the caution label attached to joint comes to the top.
 • Do not install the joint vertically why it may cause the malfunction of outdoor unit.
 • Make sure the piping up to the joint is straight for more than 500mm. Do not bend the field piping within this range. If a straight field piping more than 120mm is connected, more than 500mm of straight section can be ensured.



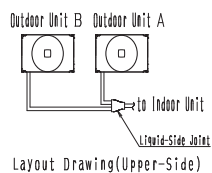
3D052312

Liquid side

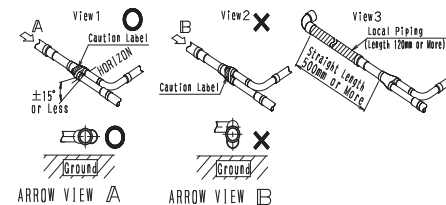
Unit: mm

**Accessory**

GAS-SIDE JOINT : 1
 LIQUID-SIDE JOINT : 1
 GAS-SIDE REDUCER (1) : 1
 GAS-SIDE REDUCER (2) : 1
 GAS-SIDE REDUCER (3) : 1
 GAS-SIDE REDUCER (7) : 1
 GAS-SIDE REDUCER (9) : 1
 LIQUID-SIDE REDUCER (1) : 1
 LIQUID-SIDE REDUCER (3) : 1
 LIQUID-SIDE REDUCER (5) : 1
 INSULATION MATERIAL FOR GAS-SIDE JOINT : 1
 INSULATION MATERIAL FOR LIQUID-SIDE JOINT : 1
 INSULATION MATERIAL FOR GAS-SIDE PIPE : 1
 INSULATION MATERIAL FOR LIQUID-SIDE PIPE : 1
 INSTALLATION MANUAL



NOTE) 1. "-----" in the figure show field supply piping.
 2. About size of connection pipe refer the "engineering data of VHV III".
 3. In case of install this kit observe follow conditions.
 • Do not tilt the joint more than $\pm 15^\circ$.
 Install the joint horizontally so that the caution label attached to joint comes to the top.
 • Do not install the joint vertically why it may cause the malfunction of outdoor unit.
 • Make sure the piping up to the joint is straight for more than 500mm. Do not bend the field piping within this range. If a straight field piping more than 120mm is connected, more than 500mm of straight section can be ensured.

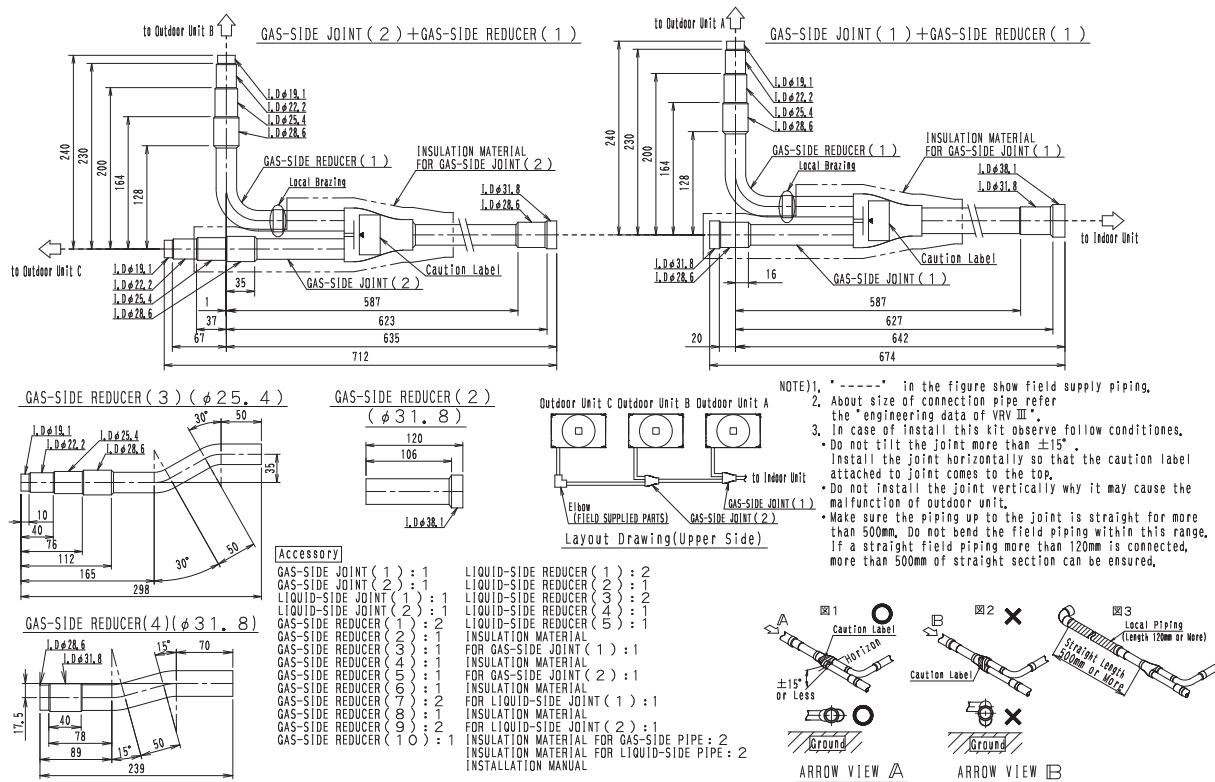


3D052280

BHFP22P1516

Gas side

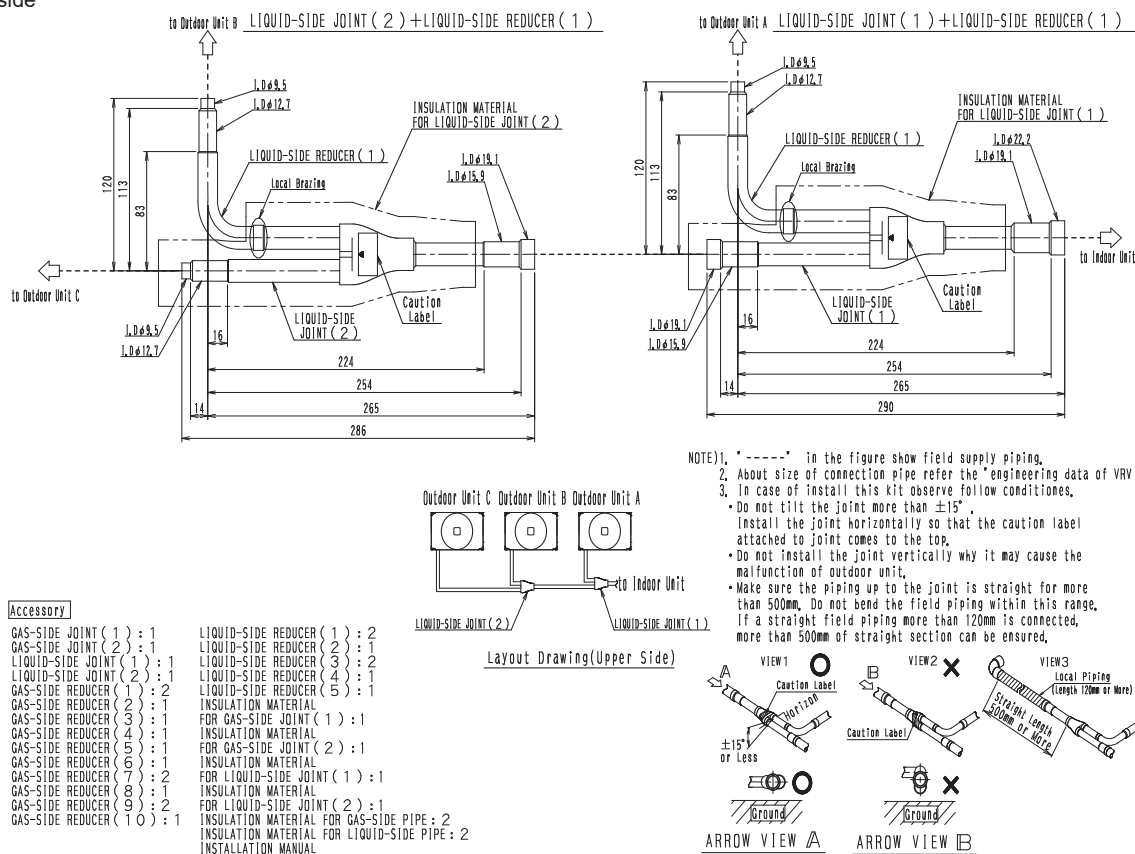
Unit: mm



3D052314

Liquid side

Unit: mm



3D052279

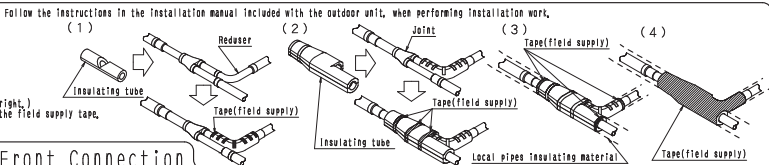
3 The work after the kit is connected

Connection of piping between the outdoor unit and the indoor unit

Air tight test

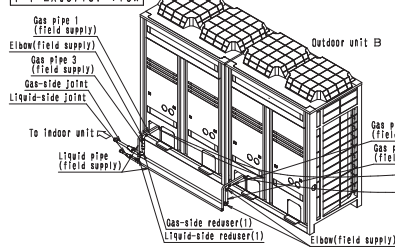
Insulation of joints

- (1) Fit the insulation to the reducer and temporarily keep it in place with tape.
- (2) Fit the insulation to the joint and temporarily keep it in place with tape without leaving a gap between the insulation mating faces. (See the figure at the right.)
- (3) Seal the seam between the insulation and the field supply piping insulation with the field supply tape.
- (4) Wrap the tape around the insulation attached to the joint without leaving a gap. (Section shown in the figure at the right.)



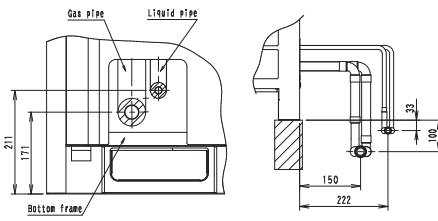
1 Installation examples Procedure for Lower Front Connection

1-1 Exterior view



1-2 Finished dimensions

- A standard installation has the following dimension.
- When the dimensions exceed the standard installation, extend the pipes between the outdoor unit and the joint(field supply).



2 Connection of gas and liquid pipes

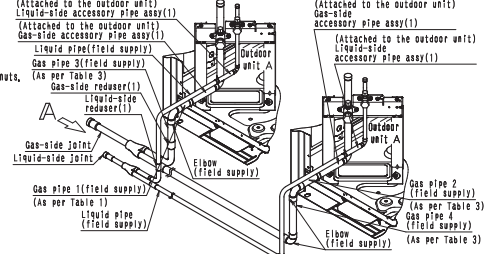
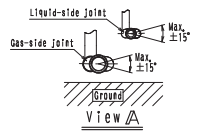
2-1 Cutting the field supply gas pipe 1 to 4

- Cut the pipes according to Table 3

Caution The L dimensions of the gas pipe 1 to 4 in Table 3 show those when the field supply elbows have B dimension in Table 2 shown in Procedure for Front Connection. 2 Connection of gas and liquid pipes. If the B dimensions are not same with Table 2, see Table 2 and 3, and adjust them accordingly.

Model type	Gas pipe 1 (field supply) L (mm)	Gas pipe 2 (field supply) L (mm)	Gas pipe 3 (field supply) L (mm)	Gas pipe 4 (field supply) L (mm)
8HP	130	165	59	237
10HP	100	135	83	225
12-18HP	66	101	149	213

- Connect the gas and liquid pipes as shown in the figure at the right.
- (When connecting the pipes, first connect the gas-side joint and the gas-side reducer (1), the liquid-side joint and the liquid-side reducer (1).)
- See the caution section in the installation manual attached to the outdoor unit for brazing pipes and connecting pipes with flare nuts.
- Install the joint in such a way that the attached face of the caution label becomes horizontal (See the View A).



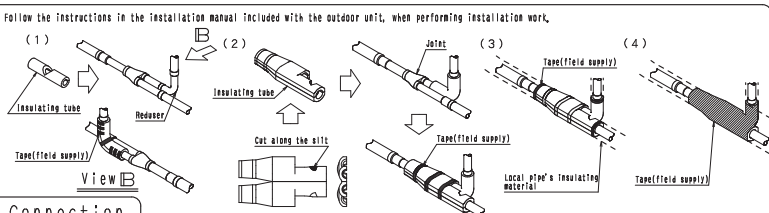
3 The work after the kit is connected

Connection of piping between the outdoor unit and the indoor unit

Air tight test

Insulation of joints

- (1) Fit the insulation to the reducer and temporarily keep it in place with tape.
- (2) Cut insulating tube along the slit. (See the figure at the right.)
- (3) Fit the insulation to the joint and temporarily keep it in place with tape without leaving a gap between the insulation mating faces.
- (4) Seal the seam between the insulation and the field supply piping insulation with the field supply tape.
- (5) Wrap the tape around the insulation attached to the joint without leaving a gap. (Section shown in the figure at the right.)



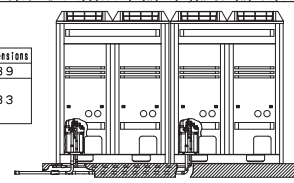
1 Installation examples Procedure for Bottom Connection

Caution This installation is only possible if there is enough space to perform brazing and racking underneath the outdoor unit. If a centralized drain pan kit and/or vibration proof base are used, the dimensions marked with * in the figure below will vary, so see the table below and determine the length of the field pipes.

1-1 Exterior view



Separately-sold item also used	*dimensions
Central drain pan kit	139
Vibration absorption stand	233
Vibration absorption stand+central drain pan kit	



2 Connection of gas and liquid pipes

2-1 Cutting the field supply gas pipe 1 and 2, and the Gas-side accessory pipe(3) attached to the outdoor unit

- Cut the pipes according to Table 4 or 5.

Caution The "L" dimensions of the gas pipe 1 in Table 4 and the gas pipe 2 in Table 5 are identical to the "L" dimensions in Table 2. Those of "field supply elbows" shown in the procedure of front connection, which are equivalent to "straight size joint" without stopper. If the "B" dimensions are not identical to Table 2 or "straight size joint" is with stopper, adjust them as Table 2, 4 and 5 show.

Table 4 (For Outdoor unit A Side)

Model type	Gas-side accessory pipe(3) B (mm)			Cutting position	Gas pipe 1 (field supply) L (mm)	
	For 100	For 139	For 233		For 100 For 139 For 233	For 100 For 139 For 233
8HP	102	63	48		79	79
10HP	72	33	25		86	86
12HP	0 (no cutting)	53	0 (no cutting)		92	133
18HP	0 (no cutting)	53	0 (no cutting)		92	133

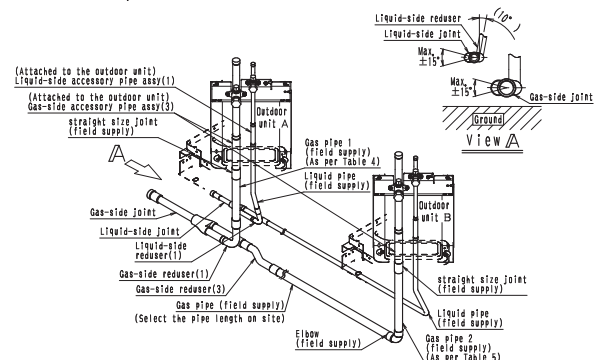
Table 5 (For Outdoor unit B Side)

Model type	Gas-side accessory pipe(3) B (mm)			Cutting position	Gas pipe 2 (field supply) L (mm)	
	For 100	For 139	For 233		For 100 For 139 For 233	For 100 For 139 For 233
8HP	0 (no cutting)	0 (no cutting)	0 (no cutting)		76	115
10HP	18	0 (no cutting)	0 (no cutting)		88	109
12HP	32	0 (no cutting)	0 (no cutting)		96	103
18HP	32	0 (no cutting)	0 (no cutting)		96	103

2-2 Connection of pipes

- Remove the knockout plate on the bottom frame. (See the installation manual attached to the outdoor unit)
- Connect the gas and liquid pipe as shown in the figure below. (When connecting the pipes, first connect the gas-side joint and the gas-side reducer (1), the liquid-side joint and the liquid-side reducer (1).)
- See the caution section in the installation manual attached to the outdoor unit for brazing pipes and connecting pipes with flare nuts.
- Install the joint in such a way that the attached face of the caution label becomes horizontal. (See the View A)
- Connect the liquid side reducer (1) tilting approx. 10° and bend the field supplied liquid pipe up to the stop valve as shown in the figure below. (See the View A)

Caution If the liquid side reducer is connected vertically without bending the liquid pipes, the insulation will not fit.



continue to reverse side

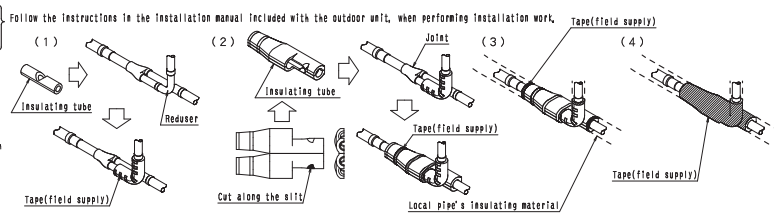
3 The work after the kit is connected

Connection of piping between the outdoor unit and the indoor unit

Air tight test

Insulation of joints

- (1) Fit the insulation to the reducer and temporarily keep it in place with tape.
- (2) Cut insulating tube along the slit. (See the figure at the right.)
- (3) Fit the insulation to the joint and temporarily keep it in place with tape without leaving a gap between the insulation mating faces.
- (4) Seal the seam between the insulation and the field supply piping insulation with the field supply tape.
- (5) Wrap the tape around the insulation attached to the joint without leaving a gap, (see section shown in the figure at the right.)



BHP22P151 Installation Instructions



There are some restrictions on the interconnecting piping between the outdoor units. See the installation manual attached to the outdoor units and make sure to carry out proper piping. If the piping restrictions are not observed, it may result in malfunction of the unit.

Connecting Pipe Sizes and Location of cutting the joint

Select cutting point of a joint or a reducer which is suitable for the size of the interconnecting pipes determined according to the table below and cut it with a pipe cutter.

Pipe between outdoor unit Multi Connection Piping Kit

Select the pipe size according to the total capacity of the outdoor unit (unit B, C).

Main pipe

Select the pipe size according to the total capacity of the outdoor unit to be connected upstream (unit A, B, C).

(units: mm)

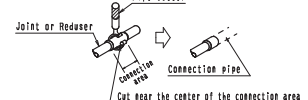
Outdoor unit total capacity (unit A, B, C) or the total capacity of the outdoor unit to be connected upstream (unit B, C)	Pipe size (OD, x ID, thickness (copper grade))	Gas pipe	Liquid pipe
16HP		#28, 6x0, 99[1/2H]	#12, 7x0, 80[0]
18~22HP		#34, 9x1, 21[1/2H]	#15, 9x0, 99[0]
24HP		#41, 3x1, 43[1/2H]	#19, 1x0, 80[1/2H]
26~34HP		#41, 3x1, 43[1/2H]	#15, 9x0, 99[0]
36HP~		#41, 3x1, 43[1/2H]	#15, 9x0, 99[0]

Pipe between the outdoor unit Multi Connection Piping Kit and the outdoor unit

Outdoor unit capacity type	Pipe size (OD, x ID, thickness (copper grade))	Gas pipe	Liquid pipe
8HP	#19, 1x0, 80[1/2H]	#9, 5x0, 80[0]	
10HP	#22, 2x0, 80[1/2H]	#12, 7x0, 80[0]	
12~16HP	#28, 6x0, 99[1/2H]	#15, 9x0, 99[0]	

Cutting procedure

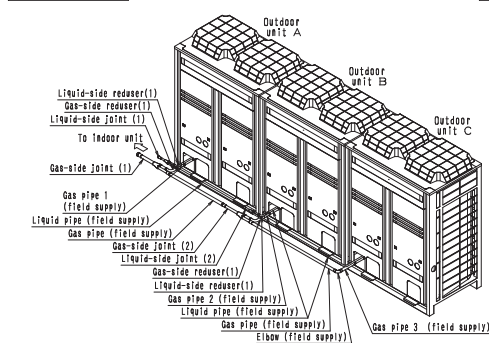
- Use pipe cutter for cutting.
- Pipe cutter



1 Installation examples

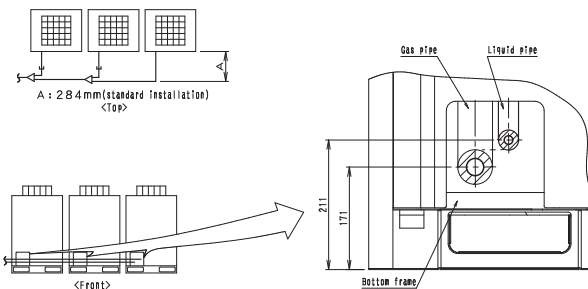
Procedure for Front Connection

1-1 Exterior view



1-2 Finished dimensions

- For installations where the A dimensions exceed 284 mm, extend the field supply interconnecting pipe between the joint and the outdoor unit.



2 Connection of gas and liquid pipes

2-1 Cutting the field supply gas pipes

- Cut the pipes according to Table 6.

Caution This Table shows the case when the A dimensions shown in "1-2 Finished dimensions" is 284mm. If the A dimensions exceed 284mm, see Table 6 and adjust the dimensions of the gas pipe 1 and 2 and 3.

The L dimensions of the gas pipe 3 in Table 6 show those when the field supply elbows have B dimension in Table 2 shown in BHP22P151 Installation Instruction, 2 connection of gas and liquid pipes.

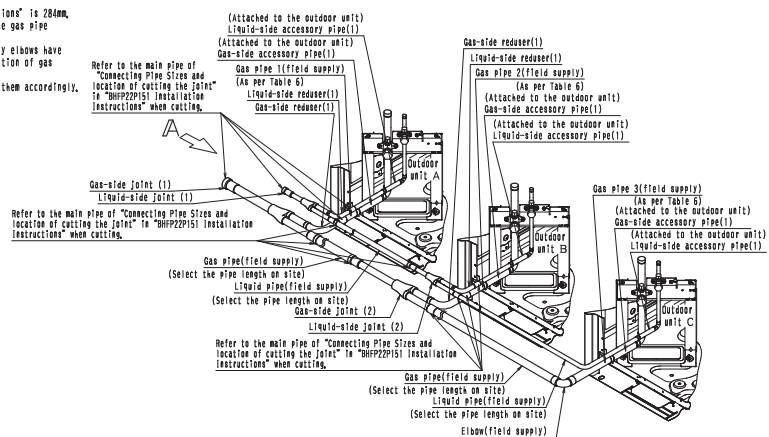
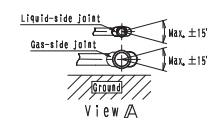
If the B dimensions are not same with Table 2, see Table 2 and 6, and adjust them accordingly.

Table 6

Model type	Gas pipe 1 (field supply) L (mm)	Gas pipe 2 (field supply) L (mm)	Gas pipe 3 (field supply) L (mm)
8HP	51	69	282
10HP	57	75	252
12~18HP	101	119	218

2-2 Connection of pipes

- Connect the gas and liquid pipes as shown in the figure at the right. When connecting the pipes, first connect the gas-side joint and the gas-side reducer(1), the liquid-side joint and the liquid-side reducer(1).
- See "1-2 Finished dimensions" for the location (height) of the joint.
- See the caution section in the installation manual attached to the outdoor unit for brazing pipes and connecting pipes with flare nuts.
- Install the joint in such a way that the attached face of the caution label becomes horizontal. (See the View A).



3 The work after the kit is connected

Connection of piping between the outdoor unit and the indoor unit

Air tight test

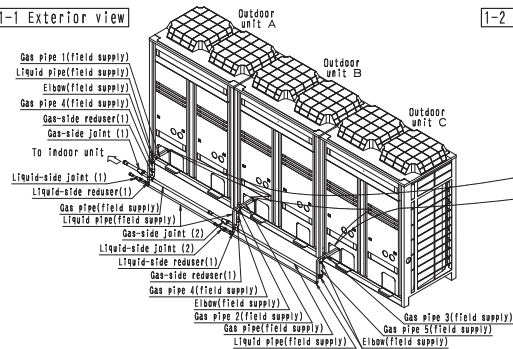
Insulation of joints

- See "The work after the kit is connected" for a front connection in "BHP22P151 Installation Instructions."

Follow the instructions in the installation manual included with the outdoor unit, when performing installation work.

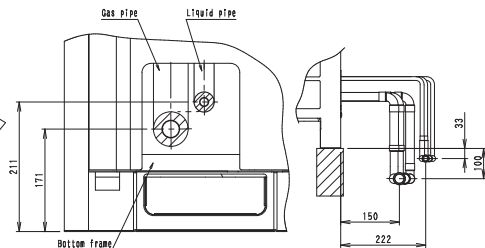
1 Installation examples Procedure for Lower Front Connection

1-1 Exterior view



1-2 Finished dimensions

- A standard installation has the following dimensions.
- When the dimensions exceed the standard installation, extend the pipes between the outdoor unit and the joint. (field supply)



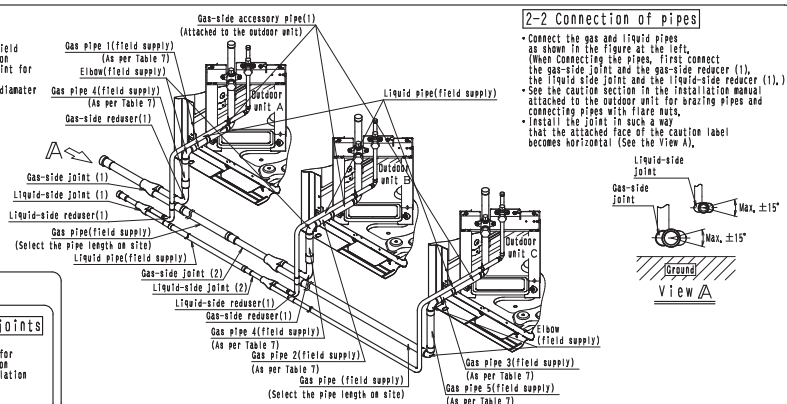
2 Connection of gas and liquid pipes

2-1 Cutting the field supply gas pipes

- Cut the pipes according to Table 7.
- Caution** The L dimensions of the gas pipe 1 to 5 in Table 7 show those when the field supply elbows have B dimension in Table 2 shown in SHPP22P100 Installation Instructions. 2 Connection of gas and liquid pipes and the field supply joint for the same diameter pipes are without stopper.

Model type	Gas pipe 1 (field supply) L (mm)	Gas pipe 2 (field supply) L (mm)	Gas pipe 3 (field supply) L (mm)
8HP	130	147	182
10HP	100	117	152
12~18HP	66	83	118

Model type	Gas pipe 4 (field supply) L (mm)	Gas pipe 5 (field supply) L (mm)
8HP	59	237
10HP	83	225
12~18HP	149	213



2-2 Connection of pipes

- Connect the gas and liquid pipes as shown in the figure at the left. (When connecting the pipes, first connect the gas-side joint and the gas-side reducer (1), the liquid-side joint and the liquid-side reducer (1).)
- See the caution section in the installation manual attached to the outdoor unit for brazing pipes and connecting pipes with flare nuts.
- Install the joint in such a way that the attached face of the caution label becomes horizontal. (See the View A).

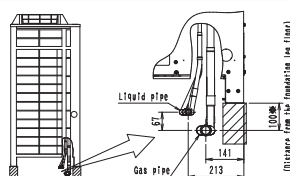
3 The work after the kit is connected

- Connection of piping between the outdoor unit and the indoor unit
- Air tight test
- Follow the instructions in the installation manual included with the outdoor unit, when performing installation work.
- Insulation of joints
- See "The work after the kit is connected" for a lower front connection of "SHPP22P100 Installation Instructions."

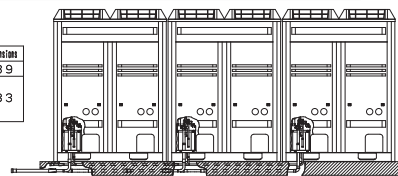
1 Installation examples Procedure for Bottom Connection

- Caution** This installation is only possible if there is enough space to perform brazing and racking underneath the outdoor unit. If a centralized drain pan kit and/or vibration proof base are used, the dimensions marked with * in the figure below will vary, so see the table below and determine the length of the field pipes.

1-1 Exterior view



Separately-sold item also used	Dimensions
Central drain pan kit	139
Vibration absorption stand	233
Vibration absorption stand + central drain pan kit	



2 Connection of gas and liquid pipes

2-1 Cutting the field supply gas pipe 1 and 2, and the Gas-side accessory pipe (3) attached to the outdoor unit

- Cut the pipes according to Table 8 or 9.
- Caution** The "L" dimensions of the gas pipe 1 in Table 8 and the gas pipe 2 in Table 9 are identical to the "B" dimensions in table 2, those of "field supply elbows" shown in the procedure of front connection, which are equivalent to "straight size joint" without stopper. If the "B" dimensions are not identical to table 2 or "straight size joint" is with stopper, adjust them as table 2, 8 and 9 show.

Table 8 (For Outdoor unit A, B Side)

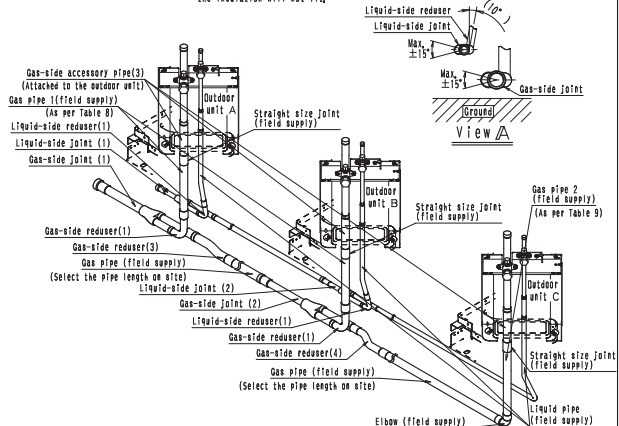
Model type	Gas-side accessory pipe(3)				Gas pipe 1(field supply)					
	B (mm)				L (mm)					
	*dimensions				*dimensions					
	For 100	For 139	For 233		For 100	For 139	For 233			
8HP	102	63	48		unnecessary	79	86			
10HP	72	33	25							
12HP	0	53	0			92	133			
18HP	(no cutting)		(no cutting)							

Table 9 (For Outdoor unit C Side)

Model type	Gas-side accessory pipe(3)				Gas pipe 2(field supply)					
	B (mm)				L (mm)					
	*dimensions				*dimensions					
	For 100	For 139	For 233		For 100	For 139	For 233			
8HP	0 (no cutting)	0 (no cutting)	0 (no cutting)		76	115	209			
10HP	18	0 (no cutting)	0 (no cutting)		88	109	203			
12HP	0 (no cutting)	0 (no cutting)	0 (no cutting)							
18HP	32	0 (no cutting)	0 (no cutting)		96	103	197			

2-2 Connection of pipes

- Remove the knockout plate on the bottom frame. (See the installation manual attached to the outdoor unit.)
- Connect the gas and liquid pipe as shown in the figure below. (When connecting the pipes, first connect the gas-side joint and the gas-side reducer (1), the liquid-side joint and the liquid-side reducer (1).)
- See the caution section in the installation manual attached to the outdoor unit for brazing pipes and connecting pipes with flare nuts.
- Install the joint in such a way that the attached face of the caution label becomes horizontal. (See the View A).
- Connect the liquid side reducer (1) tilting approx. 10° and bend the field supplied liquid pipe up to the stop valve as shown in the figure below. (See the View A).
- Caution** If the liquid side reducer is connected vertically without bending the liquid pipes, the insulation will not fit.



3 The work after the kit is connected

- Connection of piping between the outdoor unit and the indoor unit
- Air tight test
- Insulation of joints
- Follow the instructions in the installation manual included with the outdoor unit, when performing installation work.
- See "The work after the kit is connected" for a front connection in "SHPP22P100 Installation Instructions."

6. Caution Label

6.1 RXQ6ARYFK / RXQ8ARYFK

Service Precautions (Touch the non-coating metal part (Ex. standard type: the EL.Compo.Box cover, anti-corrosion treatment types: the fixing bolt of EL.Compo.Box) to eliminate static electricity before performing service.)

! After finish service, make sure to close service cover. (water soaking and foreign object may cause failure.)

Caution when performing service inside the EL.COMPO.BOX

1. Make sure to turn off power supply before remove the EL.COMPO.BOX cover.
(Touching electric parts may cause electric shock.)
2. Do not open the EL.COMPO.BOX cover for 10 minute after the power supply is turned off.
3. Measure the voltage between terminals on the terminal block for power supply with a tester and confirm that the power supply is turned off. In addition, measure the points shown in the right figure with a tester and confirm that the voltage of the capacitor in the main circuit is less than DC50V.
4. To prevent a damage of the PC board touch the non-coating metal part and make sure to eliminate static electricity before pulling out or plugging in the connector.

continue

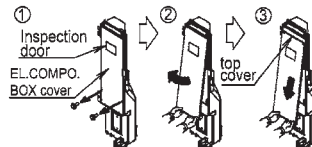
CAUTION for removing and installing the EL.COMPO.BOX cover

[Method of removal]

1. Remove the 2 screw fixing the cover.
2. Remove the cover towards you.
3. Pull the cover downward till its top shows.

[Method of installation]

For installing the cover follow the procedures in the reverse order.

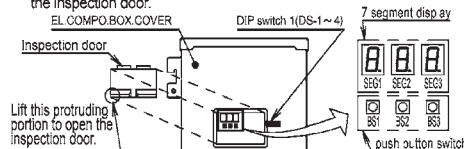


[Field Setting]

If required, carry out the field setting according to the following instructions. For details, see the service manual.

1. How to operate

- When setting the DIP switch, make sure to turn off the power supply and open the EL.COMPO.BOX cover.
- For operating the push button switch, open the inspection door as shown in the below figure with the power supply turned on and use a resin ballpoint or non-conducting object. After the work is finished, make sure to close the inspection door.



2. DIP switch setting (for RXYQ Model)

No.	Setting item	Setting value
DS1-1	Cool/Heat switching setting (Note)	ON (when connecting COOL/HEAT selector) OFF (Factory setting)
DS1-2~4		No change of factory set (OFF)

(Note) COOL/HEAT selector (optional accessory) installing in outdoor unit is enable to switch operation mode (cooling/heating). For details of COOL/HEAT selector installation method, see its installation manual.

3. Setting by the push button switch (BS1 ~ 3)

• Function of the push switch

Push button	Button types	Use
BS1	New page button	For changing setting mode
BS2	Operation button	For changing field setting
BS3	Confirm button	For check operation
BS2 long push	Operation button	For resetting the address when the wiring is changed or an additional indoor unit is installed
BS3 long push	Confirm button	

• Normal Mode, Setting Mode, Confirmation Mode change method

Push new page button (BS1) it can be switched to as right upper shown confirmation mode, normal mode, setting mode.

Setting mode can use for setting (A)~(H) items as shown in right table.

Confirmation mode can use for confirmation of (1)~(K) items as shown in right table.

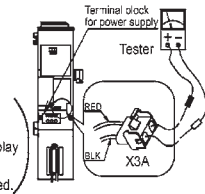
(Note) About other settings and abnormal code, see service manual.

continue

! WARNING ! Caution to ELECTRIC SHOCK

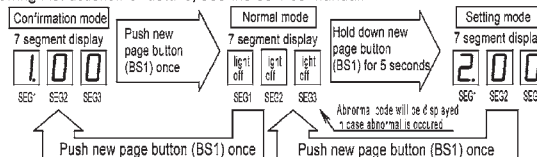
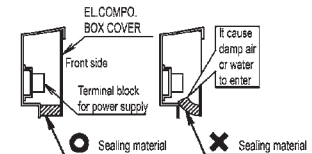
5. The work must be started after pulling out the junction connector X1A for the fan motor in the outdoor unit and be careful not to touch the live parts. (If the fan rotates by strong wind, it may cause storage of electricity in the capacitor in the main circuit and electric shock.)
6. After the service is finished, plug in the junction connector.

- For details, see the wiring diagram labeled on the back of the EL.COMPO.BOX cover.
- Otherwise, abnormal code "E7" will be displayed on 7 segment display of outdoor unit PC board (A1P) and in the remote controller due to wrong connection, and normal operation will not be performed.



[Caution]

- Do not remove the cover by force. If the cover is deformed, water may enter inside, which may cause failure.
- Install the cover so that the sealing material labeled on the lower part on its back side may not get caught in the EL.COMPO.BOX inside (See as shown on the right)



! if you get confused in the setting process, push the new page button (BS1), then it will return to initial state (Normal mode)

- For each type setting, make sure to set master unit. Slave unit setting is invalid.
- Outdoor unit which connect with indoor units by transmission wiring is master unit, other are slave units.
- Master unit and slave unit can be distinguished by 7 segment display according to operation below.

	7 segment display	SEG1	SEG2	SEG3
(1) In [Normal mode] push new page button (BS1) once then make it as [Confirmation mode] to confirm 7 segment display as show right description.		1	0	0
(2) To confirm master unit or slave unit, push confirmation button (BS3)		Master unit	Slave unit1	Slave unit2
		light off	light off	light off
		light off	light off	light off
		light off	light off	light off

	Set [Setting mode] or [Confirmation mode] first, then perform procedure as below.	7 Segment display		
		SEG1	SEG2	SEG3
Setting procedure	① Push the operation button (BS2) following to setting items (A)~(H) and adjust the 7 segment display to require mode shown in the right.	① Cool/Heat selection setting (※1)	2	0
		② Refrigerant recovery / Evacuation mode setting	2	2
		③ Night time low noise setting	2	2
		④ External low noise level setting (※1)	2	2
		⑤ Demand level setting (※1)	2	3
		⑥ External low noise demand setting (※1)	2	1
		⑦ High static pressure setting	2	1
		⑧ VRT smart setting (※1)	2	1
	② Push the confirmation button (BS3) (The present setting will be indicated).	Either of ④		
	③ Push the operation button (BS2) and adjust the 7 segment display to required mode, shown in the right.	For (A)	For perform individual cool/heat switching	light off
Confirmation procedure		For (B)~(F)	For cool/heat switching by master unit	light off
		For (G)	For cool/heat switching by slave unit	light off
		For (H)	ON	light off
		For (I)	OFF (Factory setting)	light off
		For (J)	OFF (Factory setting)	light off
		For (K)	level A (※3)	light off
		For (L)	level B (※4)	light off
		For (M)	level C (※4)	light off
		For (N)	level D (※4)	light off
		For (O)	level E (※4)	light off
Confirmation procedure	④ Push confirmation button (BS3)	The setting in ③ is defined		
	⑤ Push confirmation button again (BS3)	The system start the operation according to the setting.		
	⑥ Push new page button (BS1)	Return to normal mode		
	⑦ Push operation button (BS2) according to confirmation item (1)~(K) and adjust the 7 segment display to required mode, shown in the right.	① low noise operation	1	0
		② demand operation	1	0
		③ For during setting operation	light off	light off
		④ For during normal operation	light off	light off
	⑧ Push confirmation button (BS3) (The present setting will be indicated)	It will turn to light ON.		
		2	0	0
		light off	light off	light off

Check operation method

Make sure to open the gas side and liquid side shut off valve before starting operation.

- Make sure to turn on the power supply of all connect unit (indoor + outdoor) before operation.
- Make sure to close all outside panels, then operate. If not, the system cannot be checked properly.

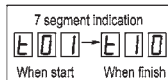
- For multi system, make sure to confirm setting and result indication by master unit.
- Make sure to carry out the check operation after the first installation. Otherwise, the abnormal code "U3" will be displayed in the remote controller. Normal operation can be carried out after 5 minutes from check operation.

- The check operation is automatically carried out in a cooling mode. The 7 segment will be indicated as shown in right, and "Test operation" and "Under centralized control" will be displayed in the remote controller.

- During the check operation, it is impossible to stop the unit from the remote controller. When discontinue the operation, push the confirmation button (BS3). The system will stop after behind operation for 30 seconds.

- It may takes 5 minutes to bring the state of refrigerant uniform before the compressor starts. Moreover, during the check operation, the refrigerant running sound, the magnetic sound of a solenoid valve may become loud during operation, but these are not malfunctions.

- The abnormality of each indoor unit cannot be checked. After the check operation is finished, check the indoor units individually by normal operation using the remote controller.



Operation procedure

- To protect the compressor, make sure to turn on the power supply for 6 hours before starting operation.
(After turning on the power supply, the unit can not start the operation until 7 segment goes off. (Maximum 12 minutes))
- In stop condition, set to **Normal mode**.
- Push the operation button (BS2) for 5 second or more (Then the unit will start the check operation)
- Close the front panel. (Otherwise, it may cause a misjudgment.)
- When the checks are completed (unit run for 30~40 min.), the system will stop automatically.
Check the operation results by the outdoor unit 7 segment display. (see the table shown upward)

Result	7 segment display
Normally finished	Light off
Abnormally finished	Abnormal code

- Push new page button (BS1) in case taking a wrong operation, then follow procedure since ② again.

Countermeasure for abnormal finish

- Confirm the abnormal code by the remote controller and 7 segment display, and correct the abnormality (For how to correct abnormality and correction method, see the installation manual, Operation manual, Service manual.)
- After correcting the abnormality, push the confirmation button (BS3) and reset the abnormal code.
- Carry out the check operation again and confirm that the abnormality is properly corrected.

Service mode operation method

- After turning on the power supply, the unit can not start until the 7 segment indication goes off for maximum 12 minutes.
- Do not shut off the power and do not reset the **[SETTING MODE]** when evacuating or recovering the refrigerant. (The expansion valves will close and the system can not be evacuated or recovered the refrigerant).

[Evacuation method] (At the first installation this evacuation is not required. It is only required for service).

- When the unit is in stopping condition and under the **[SETTING MODE]** set the **⑥** refrigerant recovery/evacuation mode (※)
- Evacuate the system with a vacuum pump.
- Push confirm button (BS3) after finish evacuation and reset the evacuation mode.
- Push new page button (BS1) and reset **[SETTING MODE]**
(※) The expansion valves in the indoor and outdoor units will be opened completely
7 segment display will be changed as shown in the right and "Test operation" and "Under centralized control" will be displayed in the remote controller. The operation will be rejected.

7 segment display

Additional refrigerant charging operation

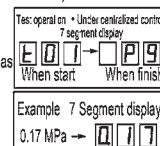
- When installation was finished, make sure to charge the refrigerant by using this procedure. If the refrigerant quantity is insufficient, the unit may malfunction.

Setting procedure
[Refrigerant charging function]

- Calculate the additional refrigerant charging amount (see additional refrigerant charge label on back side of front panel). If the calculation refrigerant charging amount is more than 4kg, follow procedure as below.
- Connect the refrigerant charge hose to the shutoff valve service port; only liquid side.
- Make sure to completely close shutoff valve on the gas side and the liquid side.
- Turn ON the power of the indoor unit and the outdoor unit. To protect the compressor, make sure to turn on the power supply for 6 hours before starting operation.
- In the stopped status,
 - Open refrigerant cylinder valve and charge 50%(±10%) of calculated additional refrigerant charge amount before start the automatic refrigerant method.
 - Connect charge hose to autocharge valve and open shutoff valve on gas side and liquid side.
 - Perform the automatic refrigerant method (for procedure see in "Installation manual").

Note) If the calculation refrigerant charging amount is 4 kg or less, pass step ②, ③ and ⑤ - 1

 - The operation is automatically started, 7 segment display will be charged as shown in right (up) and "Test operation" and "under centralized control" are displayed in the remote controller.
 - Low pressure indication may display on 7 segment display (as shown in right (down)), however, operation can be carried out continuously.
- After charging the specified quantity of refrigerant, close refrigerant cylinder valve, press confirmation button (BS3). The operation will be stopped. The operation is automatically stopped within 30 minutes.



Caution for piping work and additional refrigerant charge

- Use the charging hose and gauge manifold designed exclusive use R410A in order to withstand the pressure and prevent impurities (such as SUNISO oil) from mixing into.
- Carry out a nitrogen blow when brazing.
- Charge the additional refrigerant in liquid state.
- Perform the air tightness and the vacuum drying certainly. (Test pressure 4.0MPa)

[Refrigerant recovery operation method] (Make sure to use a refrigerant reclaiming)

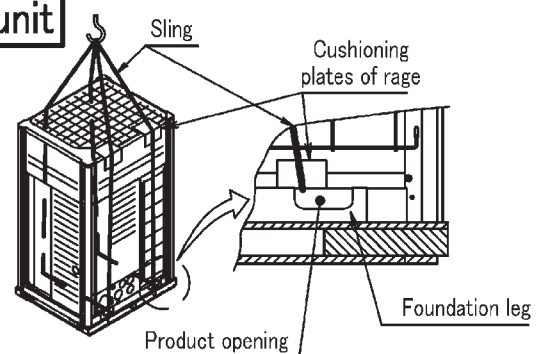
- When the unit is at stand still and under the **[SETTING MODE]** set the **⑥** Refrigerant recovery / Evacuation mode to ON.
- Recovery the refrigerant by a refrigerant reclaiming. (For details, see the manual attached in refrigerant recovery operation method).
- After completed, push the confirm button (BS3) and reset the refrigerant recovery mode.
- Push new page button (BS1) and reset **[SETTING MODE]**

R410A

To those who install or move the unit

1. When lifting the unit

- To hang the unit, use 2 slings of at least 8 m long. Put the belt slings into the product openings of foundation legs.
- Put cushioning plates of rags where the slings contact the casing in order to prevent the casing from being damaged.



2. When carrying the unit by forklift

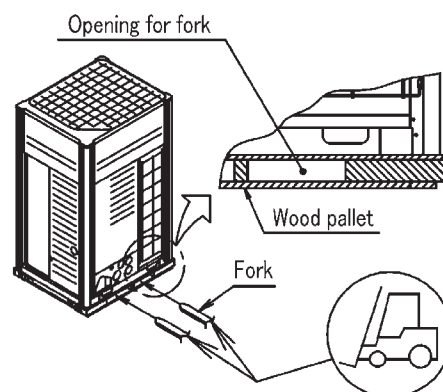


Prohibition

Do not put the fork into the product openings of foundation legs.

※ Product could get damaged due to put fork into product openings of foundation legs.

- If a forklift is used for carrying the unit, Put the fork into wood pallet openings by let the tip out of the opposite side sufficiently.



3. Electrical work

- To prevent electric shock and fire accident, be sure to perform grounding and install an earth leak breaker. To perform grounding and install an earth leak breaker, be sure electrical work must be carried out by a licensed electrician.
- To confirm the insulation of main power supply circuit before open shutoff valve. If shutoff valve remains open without charge power supply, insulation resistance may decline due to refrigerant is accumulated in compressor.

To those who carry out service and maintenance



WARNING

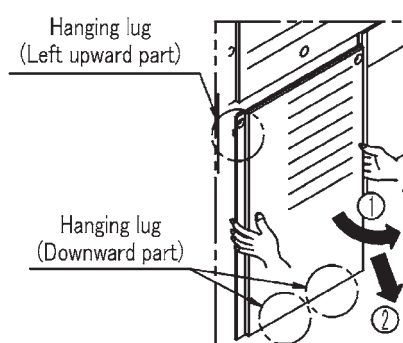


Caution to
electric shock

- Beware the fan running when inspect.
- Do not touch the charged part when inspect.

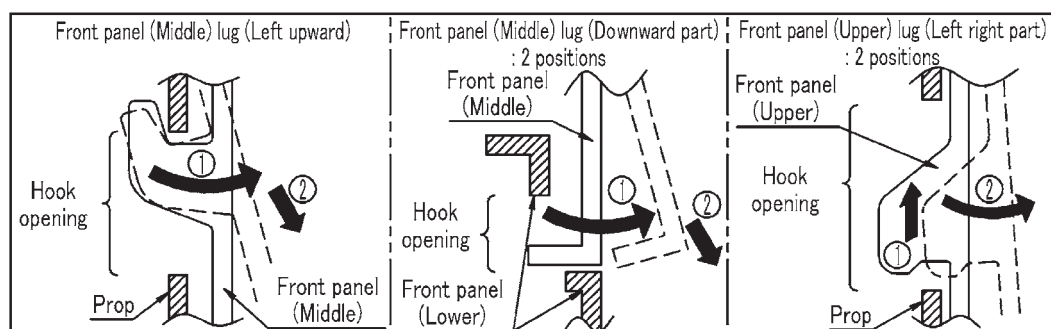
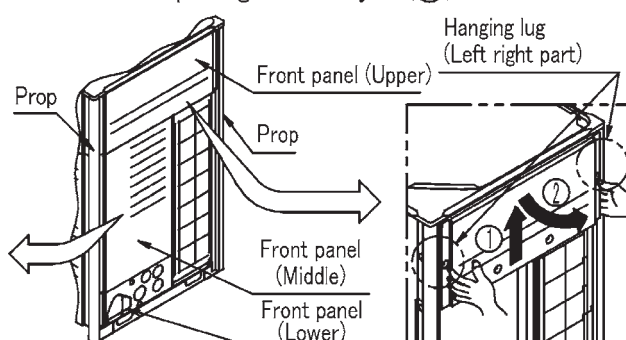
<Front panel (Middle) remove method>

- Pull front panel (down) and a prop out of left upward part and hanging lug downward part towards you (①), Then slide in a slope downward direction (②).

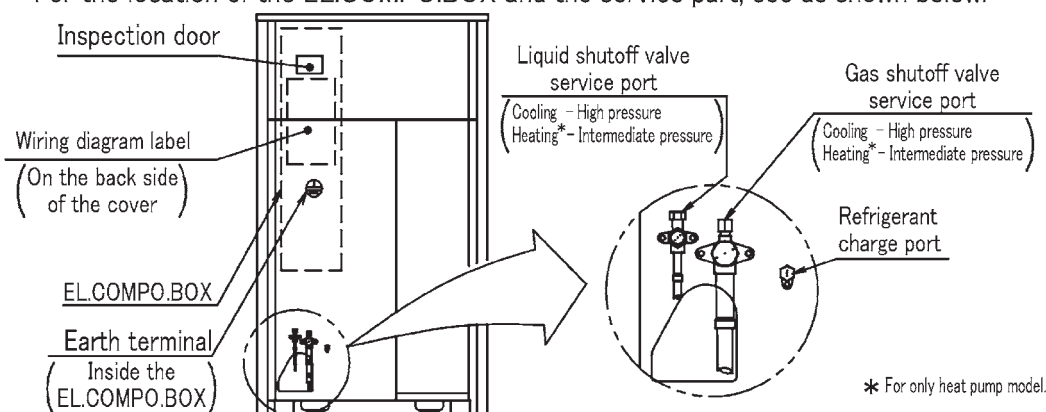


<Front panel (Upper) remove method>

- Lift the panel a little (①), remove left right hanging lug by raise panel from hook opening towards you (②).



- For the location of the EL.COMPO.BOX and the service part, see as shown below.



6.2 RXQ10ARYFK / RXQ12ARYFK / RXQ14ARYFK / RXQ16ARYFK

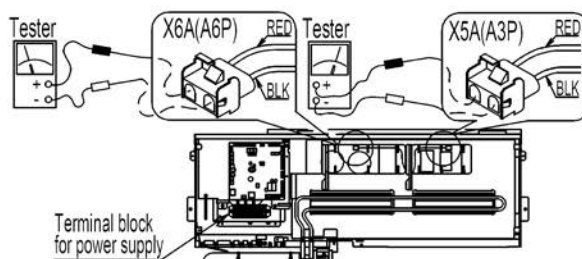
Service Precautions (1/2)

(Touch the noncoating metal part (Ex. standard type:the EL.COM.BOX cover, anti-corrosion treatment types :) the fixing bolt of EL.COMPO.BOX) to eliminate static electricity before performing service.)

⚠ WARNING ⚠ Caution to ELECTRIC SHOCK

1. Make sure to turn off power supply before remove the EL.COMPO.BOX cover.
(Touching electric parts may cause electric shock.)
2. Do not open the EL.COMPO.BOX cover for 10 minutes after the power supply is turned off.
3. Measure the voltage between terminals on the terminal block for power supply with a tester and confirm that the power supply is turned off. In addition, for models that have connectors for residual voltage check (X6A, X5A), measure points shown in the right figure with a tester and confirm that the voltage of the capacitor in the main circuit is less than DC 50V.
4. To prevent a damage of the PC board, touch the non coating metal part and make sure to eliminate static electricity before pulling out or plugging in the connector.
5. The work must be started after pulling out the junction connector X1A · X2A for the fan motor in the outdoor unit and be careful not to touch the live parts.
(If the fan rotates by strong wind, it may cause storage of electricity in the capacitor in the main circuit and electric shock.)
6. After the service is finished, plug in the junction connector.
 • For details, see the wiring diagram label on the back of the EL.COMPO.BOX cover.
 • Otherwise, abnormal code "E7" will be displayed on 7 segment display of outdoor unit PC board (A1P) and in the remote controller due to wrong connection, and normal operation will not be performed.

❗ After finish service, make sure to close EL.COMPO.BOX cover.
(water soaking and foreign object may cause failure.)



Caution for piping work and addition refrigerant charge

- Use the charging hose and gauge manifold designed exclusive use R410A in order to withstand the pressure and prevent impurities (such as SUNISO oil) from mixing into.
- Carry out a nitrogen blow brazing.
- Charge the additional refrigerant in liquid state.
- Perform the air tightness test and the vacuum drying certainly. (Test pressure 4.0 MPa.)

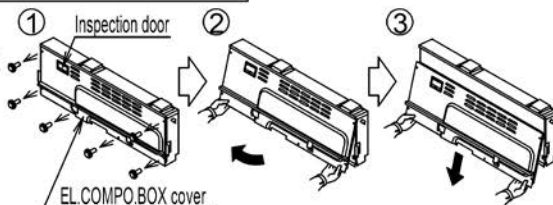
Caution in check operation

- Make sure to turn ON the power to the connected units (indoor and outdoor) at first.
- The operation must be performed with the all outer plates closed.
Otherwise, the operation will malfunction, and the system cannot check properly.

Caution for install and remove EL.COMPO.BOX cover

[Method of removal]

- ① Remove the 6 screws fixing the cover.
- ② Pull the cover towards you.
- ③ Slide the cover downward until can see the upper tip.

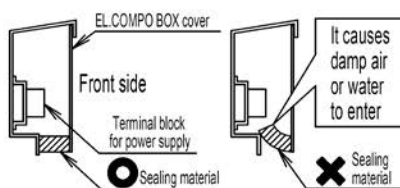


[Method of installation]

For installing the cover, follow the [Method of removal] in the reverse order.

[CAUTION]

- Do not remove the cover by force, if the cover is deformed, water may enter inside, which may cause failure.
- Install the cover so that the sealing material label on the lower part on its back side may not get caught in the EL.COMPO.BOX inside.
(see as shown on the right figure)



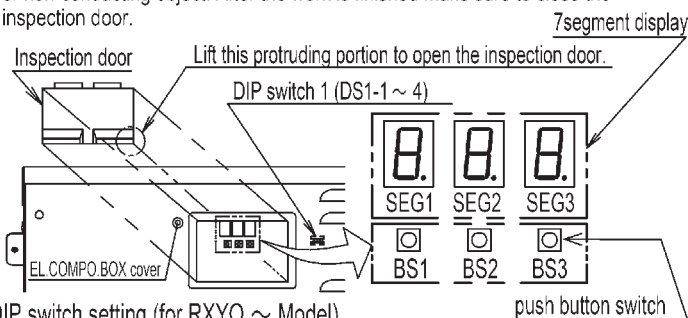
Service precautions (2/2)

Field setting

If required, carry out the field setting according to the following instruction.
For details, see the service manual.

1. How to operate

- When setting the DIP switch, make sure to turn off the power supply and open the EL.COMPO.BOX cover.
- For operating the push button switch, open the inspection door as shown in the below figure with the power supply turned on, and use a resin ballpoint or non-conducting object. After the work is finished make sure to close the inspection door.



2. DIP switch setting (for RXYQ ~ Model)

No.	Setting item	Setting value
DS1-1	Cool/Heat switching setting (Note)	ON (when connecting COOL/HEAT selector) OFF (Factory setting)
DS1-2 ~ 4		No change of Factory set (OFF)

(Note) COOL/HEAT selector (optional accessory) installing indoor unit is enable to switch operation mode (cooling/heating).
For details of COOL/HEAT selector installation method, see its installation manual.

3. Setting by the push button switch (BS1~3)

• Function of the push switch

Push button	Button types	Use
BS1	New page button	For changing setting mode
BS2	Operation button	For changing field setting
BS3	Confirm button	
BS2 long push	Operation button	For check operation
BS3 long push	Confirm button	For resetting the address when the wiring is changed or an additional indoor unit is installed

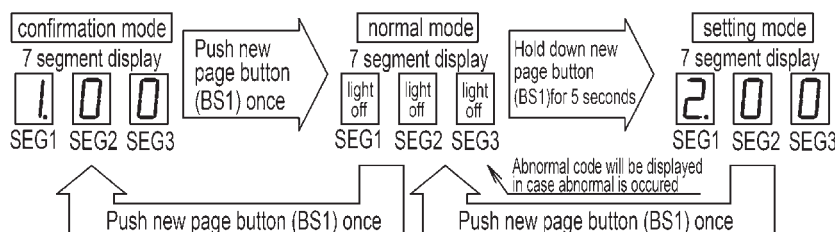
• Normal Model, Setting Mode, Confirm mode change method

Push new page button (BS1). It can be switched to as right upper shown confirmation mode, normal mode, setting mode.

Setting mode can use for setting (A) ~ (H) as shown in right table.

Confirmation mode can for confirmation of (J) • (K) items as shown in right table.

(Note) About other settings and abnormal code, see the service manual.



!
If you get confused in the setting process, push the new page button (BS1), then it will return to initial state. (Normal mode)

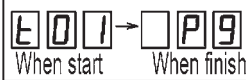
- For each type setting, make sure to set master unit. Slave unit setting is invalid.
- Outdoor unit which connect with indoor unit by transmission wiring is master unit, other are slave units.
- Master unit and Slave unit, can be distinguished by 7 segment display according to operation below.

		7 segment display		
		SEG1	SEG2	SEG3
(1)	In Normal mode push new page button (BS1) once then make it as confirmation mode to confirm 7 segment display as shown in right description.	1	0	0
(2)	To confirm master unit or slave unit, and push confirmation button (BS3).	Master unit	light off	light off
		Slave unit 1	light off	light off
		Slave unit 2	light off	light off

Set [setting mode] and [confirmation mode] first, then perform procedure as below.		Details of setting	7 Segment display														
			SEG1	SEG2	SEG3												
Setting procedure	① Push the operation button (BS2) following to setting items (A) ~ (H) and adjust the 7 segment display to required mode, shown in the right. (※1) For selecting low noise operation or demand operation by outside order or performing cool/heat setting by cool/heat central remote control (for RXYQ ~ Model) or VRT smart setting by external control adapter for outdoor unit (optional accessory) is required. For details, see the instruction attached to the adapter.		Ⓐ Cool/Heat selection setting (※1)	2	0	0											
			Ⓑ Refrigerant recovery / Evacuation mode setting	2	2	1											
			Ⓒ Night time low noise setting	2	2	2											
			Ⓓ External low noise level setting (※1)	2	2	5											
			Ⓔ Demand level setting (※1)	2	3	0											
			Ⓕ External low noise demand setting (※1)	2	1	2											
			Ⓖ High static pressure setting	2	1	8											
			Ⓗ VRT smart setting (※1)	2	1	1											
	② Push the confirmation button (BS3) (The present setting will be indicated).		Either of ③														
	③ Push the operation button (BS2) and adjust the 7 segment display to the example. Shown on the right according to the required mode. (※2) Setting level efficiency <table border="1"> <tr> <td>For Ⓒ and Ⓓ</td> <td>Setting value</td> <td>level 1 ~ level 4</td> </tr> <tr> <td></td> <td>Noise value</td> <td>→ low noise</td> </tr> <tr> <td>For Ⓔ</td> <td>Setting value</td> <td>level 1 ~ level 8</td> </tr> <tr> <td></td> <td>Power consumption</td> <td>← less power</td> </tr> </table> For details, see the service manual.	For Ⓒ and Ⓓ	Setting value	level 1 ~ level 4		Noise value	→ low noise	For Ⓔ	Setting value	level 1 ~ level 8		Power consumption	← less power	For Ⓐ	For perform individual cool/heat switching	light off	light off
For Ⓒ and Ⓓ	Setting value	level 1 ~ level 4															
	Noise value	→ low noise															
For Ⓔ	Setting value	level 1 ~ level 8															
	Power consumption	← less power															
	For cool/heat switching by master unit	light off	light off	1													
	For cool/heat switching by slave unit	light off	light off	2													
For Ⓑ Ⓕ	ON	light off	light off	1													
Ⓖ	OFF (Factory setting)	light off	light off	0													
For Ⓒ (※2)	OFF (Factory setting)	light off	light off	0													
	level A (※3) (※3) A is a number of 1 ~ 4	light off	light off	A (※3)													
For Ⓓ (※2)	level A (※3) (※3) A is a number of 1 ~ 4 (Factory setting:2)	light off	light off	A (※3)													
For Ⓔ (※2)	level B (※4) (※4) B is a number of 1 ~ 8 (Factory setting:3)	light off	light off	B (※4)													
For Ⓗ	OFF (Factory setting)	light off	light off	0													
	VRT smart setting by connecting "low noise sound" terminal	light off	light off	1													
	VRT smart setting by connecting "demand input" terminal	light off	light off	2													
Confirmation procedure	④ Push confirmation button (BS3)		The setting in ③ is defined			If will turn to light ON.											
	⑤ Push confirmation button again (BS3).		The system start the operation according to the setting.			2 0 0											
	⑥ Push new page button (BS1)		Return to normal mode			light off light off light off											
	① Push operation button (BS2) according to confirmation item (Ⓓ, Ⓗ) and adjust the 7 segment display to required mode, shown in the right.		Ⓓ low noise operation	1	0	1											
			Ⓗ demand operation	1	0	2											
	② Push confirmation button (BS3) (The present setting will be indicated)		For during setting operation	light off	light off	1											
			For during normal operation	light off	light off	0											

Additional refrigerant charging operation

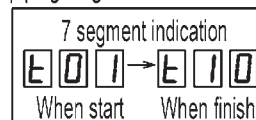
- When installation was finished, make sure to charge the refrigerant by using this procedure. If the refrigerant quantity is insufficient, the unit may malfunction.

Setting procedure [Refrigerant charging function]	
① Calculate the additional refrigerant charging amount (see additional refrigerant charge label on back side of front panel). If the calculation refrigerant charging amount is more than 4kg, follow procedure as below.	
② Connect the refrigerant charge hose to the shutoff valve service port ; only liquid side.	
③ Make sure to completely close shutoff valve on the gas side and the liquid side.	
④ Turn ON the power of the indoor unit and the outdoor unit. To protect the compressor, make sure to turn on the power supply for 6 hours before starting operation.	
⑤ In the stopped status, 1. open refrigerant cylinder valve and charge 50%(±10%) of calculated additional refrigerant charge amount before start the automatic refrigerant method. 2. Connect charge hose to autocharge valve and open shutoff valve on gas side and liquid side. 3. Perform the automatic refrigerant charging method (for procedure see in "Installation manual"). Note) If the calculation refrigerant charging amount is 4 kg or less, pass step ②, ③ and ⑤ - 1 ● The operation is automatically started, 7 segment display will be charged as shown in right(up) and "Test operation" and "under centralized control" are displayed in the remote controller. ● Low pressure indication may display on 7 segment display (as shown in right (down)), however, operation can be carried out continuously.	Test operation • Under centralized control 7 segment display  Example 7 Segment display 0.17 MPa 
⑥ After charging the specified quantity of refrigerant, close refrigerant cylinder valve, press confirmation button (BS3). The operation will be stopped. The operation is automatically stopped within 30 minutes.	

Check operation method

! Make sure to open the gas side and liquid side shutoff valve before starting operation

- The items below will be automatically checked by check operation.
 - ◆ Check of miswiring ◆ Check of shutoff valve opening ◆ Check of refrigerant overcharge ◆ Judgement of piping length.
- Make sure to carry out the check operation after the first installation. otherwise, the abnormal code "U3" will be displayed in the remote controller and normal operation can be carried out after 5 minutes.
- For multi system, make sure to confirm setting • result indication by master unit.
- The check operation is automatically carried out in a cooling mode. the 7 segment will be indicate as shown in right, and "Test operation" and "under centralized control" will be displayed in the remote controller.
- During the check operation, it is impossible to stop the unit from the remote controller. When discontinue the operation, push the confirmation button (BS3). The system will stop after behind operation for 30 seconds.
- It may takes 5 minutes to bring the state of refrigerant uniform before the compressor starts. Moreover, during the check operation, the refrigerant running sound, the magnetic sound of a solenoid valve may become loud during operation, but these are not malfunctions.
- The abnormality of each indoor unit cannot be checked. After the check operation is finished, check the indoor units individually by normal operation using the remote controller.



【Operation procedure】

- ① To protect the compressor, make sure to turn on the power supply for 6 hour before starting operation.
(After turning on the power supply, the unit cannot start the operation until 7 segment goes off. (Maximum 12 minutes))
- ② In stop condition, set to **Normal mode**
- ③ Push the operation button (BS2) for 5 second or more (Then the unit will start the check operation)
- ④ Close the front panel. (Otherwise, it may cause a misjudgement.)
- ⑤ When the checks are completed (unit run for 30~40 min.), the system will stop automatically.
Check the operation results by the outdoor unit 7 segment display (see the table shown below.)

Result	7 Segment display
Normally finished	Light off
Abnormally finished	Abnormal code

! Push new page button (BS1) in case taking a wrong operation, the follow procedure since ② again

【Countermeasure for abnormal finish】

- ① Confirm the abnormal code by the remote controller and 7 segment display, and correct the abnormality.
(For how to correct abnormality and correction method, see the installation manual • Operation manual • Service manual.)
- ② After correcting the abnormality, push the confirmation button (BS3) and reset the abnormal code.
- ③ Carry out the check operation again and confirm that the abnormality is properly corrected.

Service mode operation method

- After turning on the power supply, the unit cannot start until the 7 segment indication goes off for maximum 12 minutes.
- Do not shut off the power and do not reset the **SETTING MODE** when evacuating or recovering the refrigerant. (The expansion valves will close and the system cannot be evacuated or recovered the refrigerant.)

[**Evaluation method**] (At the first installation this evacuation is not required.
It is only required for service.)

- ① When the unit is in stopping condition and under the **SETTING MODE** set the **(B)** refrigerant recovery/evacuation mode. (※)
- ② Evacuate the system with a vacuum pump.
- ③ Push confirmation button (BS3) after finish evacuation and reset the evacuation mode.
- ④ Push new page button (BS1) and reset **SETTING MODE**

[**Refrigerant recovery operation method**] (Make sure to use a refrigerant reclaim)

- ① When the unit is at stand still and under the **SETTING MODE** set the **(B)** refrigerant recovery/evacuation mode to ON.
- ② Recovery the refrigerant by a refrigerant reclaim. (For details, see the installation manual)
- ③ After completed, push the confirmation button (BS3) and reset the refrigerant recovery mode.
- ④ Push new page button (BS1) and reset **SETTING MODE**

(※) The expansion valves in the indoor and outdoor units will be opened completely, 7 segment display will be changed as shown below and "Test operation "and"Under centralized control" will be displayed in the remote controller. The operation will be rejected.

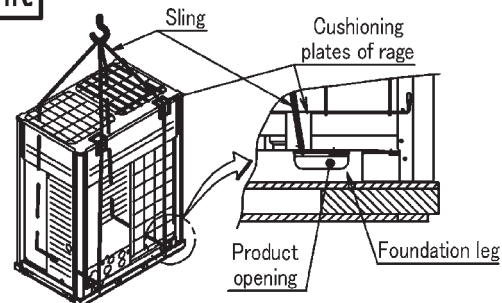
7 Segment display **E 0 1**

R410A

To those who install or move the unit

1. When lifting the unit

- To hang the unit, use 2 slings of at least 8 m long. Put the slings into the product openings of foundation legs.
- Put cushioning plates of rags where the slings contact the casing in order to prevent the casing from being damaged.



2. When carrying the unit by forklift



Prohibition

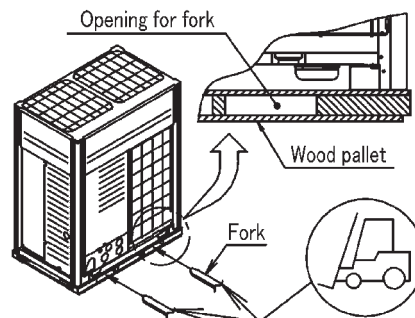
Do not put the fork into the product openings of foundation legs.

※ Product could get damaged due to put fork into product openings of foundation legs.

- If a forklift is used for carrying the unit, Put the fork into wood pallet openings by let the tip out of the opposite side sufficiently.

3. Electrical work

- To prevent electric shock and fire accident, be sure to perform grounding and install an earth leak breaker. To perform grounding and install an earth leak breaker, be sure electrical work must be carried out by a licensed electrician.
- To confirm the insulation of main power supply circuit before open shutoff valve. If shutoff valve remains open without charge power supply, insulation resistance may decline due to refrigerant is accumulated in compressor.



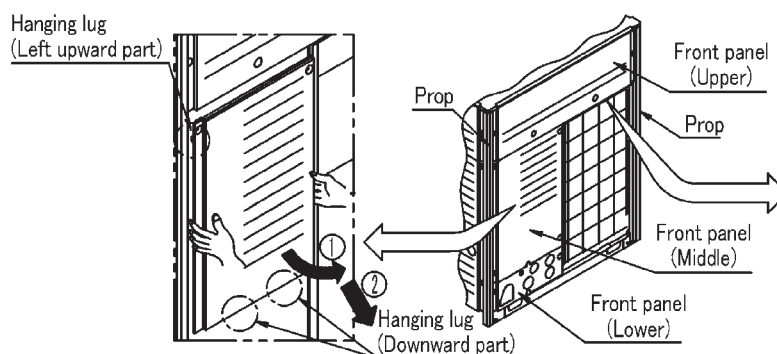
To those who carry out service and maintenance



- Beware the fan running when inspect.
- Do not touch the charged part when inspect.

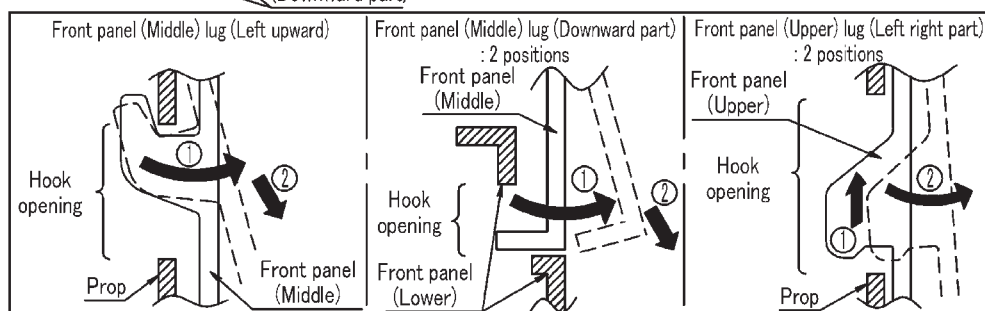
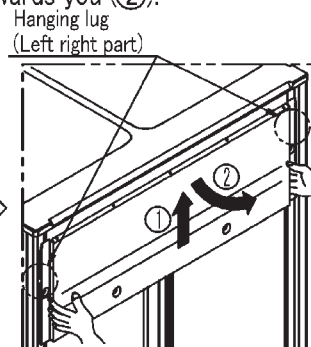
<Front panel (Middle) remove method>

- Pull front panel (down) and a prop out of left upward part and hanging lug downward part towards you (①), Then slide in a slope downward direction (②).

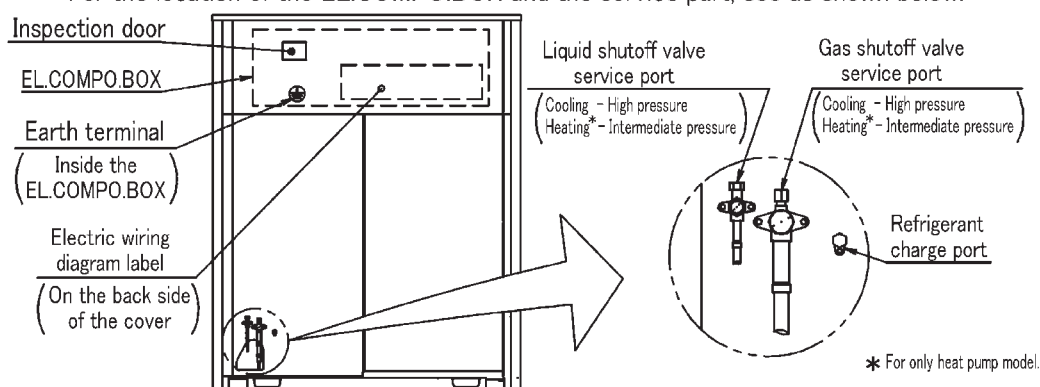


<Front panel (Upper) remove method>

- Lift the panel a little (①), remove left right hanging lug by raise panel from hook opening towards you (②).



- For the location of the EL.COMPO.BOX and the service part, see as shown below.



4. Appendix

1. Caution for Refrigerant Leaks

1.1 Introduction

1.2 Maximum Concentration Level

1.3 Procedure for Checking Maximum Concentration

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1. Caution for Refrigerant Leaks

1.1 Introduction

The installer and system specialist shall secure safety against leakage according to local regulations or standards. The following standards may be applicable if local regulations are not available.

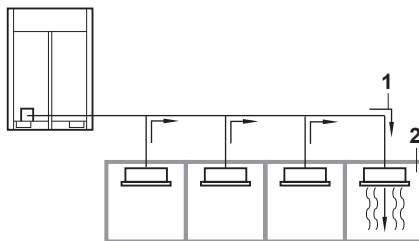
This system uses R410A as refrigerant. R410A itself is an entirely safe non-toxic, non-combustible refrigerant. Nevertheless care must be taken to ensure that air conditioning facilities are installed in a room which is sufficiently large. This assures that the maximum concentration level of refrigerant gas is not exceeded, in the unlikely event of major leak in the system and this in accordance to the local applicable regulations and standards.

1.2 Maximum Concentration Level

The maximum charge of refrigerant and the calculation of the maximum concentration of refrigerant is directly related to the humanly occupied space in to which it could leak.

The unit of measurement of the concentration is kg/m^3 (the weight in kg of the refrigerant gas in 1m^3 volume of the occupied space).

Compliance to the local applicable regulations and standards for the maximum allowable concentration level is required.



- 1 Direction of the refrigerant flow
- 2 Room where refrigerant leak has occurred (outflow of all the refrigerant from the system)

Pay special attention to places, such as basements etc., where refrigerant can stay, since refrigerant is heavier than air.

1.3 Procedure for Checking Maximum Concentration

Check the maximum concentration level in accordance with steps 1 to 4 below and take whatever action is necessary to comply.

- 1
- Calculate the amount of refrigerant (kg) charged to each system separately.

Amount of refrigerant in a single unit system
(amount of refrigerant with which the system is
charged before leaving the factory)

+

Additional charging amount (amount of
refrigerant added locally in accordance with the
length or diameter of the refrigerant piping)

=

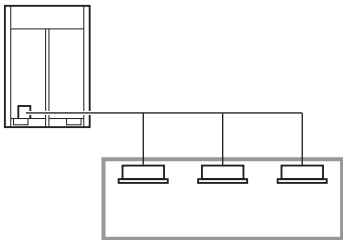
Total amount of refrigerant (kg) in the system



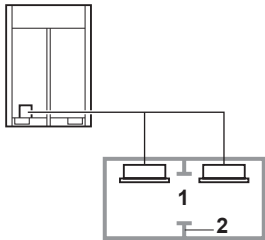
NOTICE

Where a single refrigerant facility is divided into 2 entirely independent refrigerant systems, use the amount of refrigerant with which each separate system is charged.

- 2
- Calculate the volume of the room (m³) where the indoor unit is installed.
In a case such as the following, calculate the volume of (A), (B) as a single room or as the smallest room.
A Where there are no smaller room divisions:



- B Where there is a room division, but there is an opening between the rooms sufficiently large to permit a free flow of air back and forth.



- 1 Opening between the rooms
- 2 Partition
(Where there is an opening without a door or where there are openings above and below the door which are each equivalent in size to 0.15% or more of the floor area.)

- 3
- Calculating the refrigerant density using the results of the calculations in steps 1 and 2 above.

Total volume of refrigerant in the refrigerant system

Size (m³) of smallest room in which there is an indoor unit installed

≤

Maximum concentration level (kg/m³)

If the result of the above calculation exceeds the maximum concentration level, a ventilation opening to the adjacent room shall be made.

- 4
- After opening to the adjacent room are made, re-calculate.
If result of calculation exceeds the maximum concentration level. Room re-modified are required, please contact your dealer.

Warning

- 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.

VRV is a trade mark of Daikin Industries, Ltd.

VRV Air Conditioning System is the world's first individual air conditioning system with variable refrigerant flow control and was commercialised by Daikin in 1982.

VRV is the trade mark of Daikin Industries, Ltd., which is derived from the technology we call "variable refrigerant volume."