

Air Conditioning **Technical Data**

Replacement VRV



EEDEN15-202

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RXYQQ-T

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1 Features

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

- Cost effective and fast replacement as only the outdoor and indoor unit needs to be replaced, meaning almost no work has to be carried out inside the building
- Efficiency gains of more than 70% can be realized, by virtue of technological developments in heat pump technology and the more efficient R-410A refrigerant
- Less intrusive and time consuming installation compared to installing a new system, as the refrigerant piping can be maintained
- Unique automatic refrigerant charge eliminates the need to calculate refrigerant volume and allows safe replacement of competitor replacement
- Automatic cleaning of refrigerant piping ensures a clean piping network, even when a compressor breakdown has occurred
- Accurate temperature control, fresh air provision, air handling units and Biddle air curtains all integrated in a single system requiring only one single point of contact
- Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature and full inverter compressors

- Customize your VRV for best seasonal efficiency & comfort with the weather dependant Variable Refrigerant Temperature function.
 Increased seasonal efficiency with up to 28%. No more cold draft by supply of high outblow temperatures
- VRV configurator software for the fastest and most accurate commissioning, configuration and customisation
- Outdoor unit display for quick on-site settings and easy read out of errors together with the indication of service parameters for checking basic functions.
- Possibility to add indoor units and increase capacity without changing the refrigerant piping
- Possibility to spread the various stages of repclacement thanks to the modular design of the VRV system
- Free combination of outdoor units to meet installation space or efficiency requirements
- Keep your system in top condition via our ACNSS service: 24/7
 monitoring for maximum efficiency, extended lifetime, immediate
 service support thanks to failure prediction and a clear understanding
 of operability and usage





Inverter

2-1 Technical S	Specifications			DVVCCOT	DVVOO10T	DVVOO12T	DVVOO14T	DVVO01/T	DW/OO10T	DVVOQ20T		
	ореспісаціон з		HP	RXYQQ8T 8	RXYQQ10T 10	RXYQQ12T 12	RXYQQ14T 14					
Capacity range	Nam											
Cooling capacity	Nom.		kW	22.4 (1)	28.0 (1)	33.5 (1)	40.0 (1)					
Heating capacity	Nom.		kW	22.4 (2)	28.0 (2)	33.5 (2)	40.00 (2)			56.0 (2)		
	Max.	T	kW	25.00 (2)	31.50 (2)	37.50 (2)	45.00 (2)	٠,		63.00 (2)		
Power input - 50Hz	Cooling	Nom.	kW	5.21	7.29	8.98	11.0			18.5		
	Heating	Nom.	kW	4.75 (2)	6.29 (2)	7.77	9.52			14.50		
		Max.	kW	5.5 (2)	7.38 (2)	9.1	11.2	12.8	14.6	17.0		
Capacity control	Method					lr	nverter controlle	ed				
EER				4.30	3.84	3.73	3.64	3.46	3.36	3.03		
ESEER - Automatic				7.53	7.20	6.96	6.83	6.50	6.38	5.67		
ESEER - Standard				6.37	5.67	5.50	5.31	5.05	18			
COP - Max.				4.54	4.27	4.12	4.02	3.91	18			
COP - Nom.				4.72	4.45	4.31	4.20	4.05	16			
Maximum number of o	connectable indoor un	its			l.		64 (3)	I	11.1 12.6 14 12.8 14.6 17 3.46 3.36 3. 6.50 6.38 5. 5.05 4.97 4. 3.91 3.87 3. 4.05 4.00 3. 200 225 22 400 450 56 520 585 66 1,240 1,310 1,310 3.46 3.36 3. 3.650 6.38 5. 3.87 3. 3.91 3.87 3. 4.05 4.00 3. 200 225 22 400 450 56 520 585 66 1,240 1,310 1,310 1,310 1 plate ent 2			
Indoor index	Min.			100	125	150	175	200	250			
connection	Nom.			200	250	300	350		16			
	Max.			260	325	390	455			650		
Dimensions	Unit	Height	mm		1 320	1 300	1,685	1 320	1 300	300		
Difficiologia	Jim	Width	mm		930		1,505	1 ′	240			
		Depth	mm		550		765	1,4	L-T-U			
	Packed unit											
	Packed unit	Height	mm		4 000		1,820	4 1	240			
		Width	mm		1,000		005	Ι,	310			
		Depth	mm				835		1 _			
Weight	Unit		kg	187		94		05	16			
	Packed unit		kg	205	2	12		25	3	34		
Packing	Material		ı				Carton					
	Weight		kg		2.00			3.00				
Packing 2	Material						Wood	ood				
	Weight		kg		17.00		18.50					
Packing 3	Material						Plastic					
	Weight		kg				0.50					
Casing	Colour		•				Daikin White					
	Material					Painted	d galvanized ste	eel plate				
Heat exchanger	Туре						Cross fin coil					
-	Fin	Treatment				Anti-	-corrosion treat	ment				
Compressor	Quantity				1				2			
•	Model						Inverter					
	Туре					Hermetical	y sealed scroll	compressor				
	Crankcase heater		W				33					
Compressor 2	Model		1				1	Inve	erter			
Compressor 2	Туре						Hori			eenr		
	Crankcase heater		W				11011			3301		
Fon			VV				Droneller for					
Fan	Type				1		Propeller fan		2			
	Quantity	Cooling Island	m-3/ ·	400	1	105	000			004		
	Air flow rate	Cooling Nom.	m³/min	162	175	185	223	260	251	261		
	External static	Max.	Pa				78					
	pressure						\/dir1					
F	Discharge direction	l			4		Vertical					
Fan motor	Quantity				1	-	<u> </u>		۷			
	Model		1			Br	ushless DC mo	motor				
	Output		W				750					
Fan motor 2	Model				-							
	Output		W		-							
Sound power level	Cooling	Nom.	dBA	78	79	3	31	3	36	88		
Count porror lover					-0	,	:4	64	65	66		
	Cooling	Nom.	dBA	5	58		61	04	03	00		
Sound pressure level Operation range	Cooling Cooling	Nom. Min.~Max.	°CDB		08		-5~43	04	0.5	00		

2-1 Technical	Specifications				RXYQQ8T	RXYQQ10T	RXYQQ12T	RXYQQ14T	RXYQQ16T	RXYQQ18T	RXYQQ20T		
Refrigerant	Туре							R-410A					
	Charge			kg	5.9	6	6.3	10.3	10.4	11.7	11.8		
Refrigerant oil	Туре						Sy	nthetic (ether)	oil				
	Charged volume			I	1 1.2 1.4 2.4 3.3								
Piping connections	Liquid	Туре					E	Braze connection	n				
		OD		mm	9.	52		12.7		15	5.9		
	Gas	Туре					E	Braze connection	n				
		OD		mm	19.1	22.2			28.6				
	Heat insulation						Both	liquid and gas	pipes				
	Piping length	OU - IU	Max.	m				120					
		After branch	Max.	m	90 (4)								
	Total piping length	System	Actual	m				300	300				
	Level difference	OU - IU	Outdoo r unit in highest position	m	50								
			Indoor unit in highest position	m				40					
		IU - IU	Max.	m				15					
Defrost method								Reversed cycle	9				
Safety devices	Item	01					Hiç	gh pressure sw	itch		-		
		02					Fan dr	iver overload p	rotector	<u>'</u>			
		03			Inverter overload protector								
		04						PC board fuse	1				
PED	Category				Category II								

Standard Accessories : Installation manual; Standard Accessories : Connection pipes; Standard Accessories : Operation manual;

2-2 Electrical S	pecifications			RXYQQ8T	RXYQQ10T	RXYQQ12T	RXYQQ14T	RXYQQ16T	RXYQQ18T	RXYQQ20T		
Power supply	Name			Y1								
	Phase			3N~								
	Frequency Hz						50					
	Voltage		V				380-415					
Voltage range	Min.		%				-10					
	Max.		%				10					
Current	Nominal running current (RLA) - 50Hz	Cooling	A	7.2	10.2	12.7	15.4	18.0	20.8	26.9		
Current - 50Hz	Minimum Ssc value	kVa	1,216	564	615	917	924	873	970			
	Minimum circuit amp	Minimum circuit amps (MCA)			22.0	24.0	27.0	31.0	35.0	39.0		
	Maximum fuse amps	(MFA)	Α	20	25	3	2	4	0	50		
	Total overcurrent am	ps (TOCA)	Α	17.3	24	1.6	3	5.4	42	2.7		
	Full load amps (FLA)	Total	А	1.2	1.3	1.5	1.8		2.6			
Wiring connections -	For power supply	Quantity			•		5G	•				
50Hz	For connection with	Quantity					2					
	indoor	Remark		F1,F2								
Power supply intake	•	•		Both indoor and outdoor unit								

Notes

- (1) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m
- (2) Heating: indoor temp. 20°CDB, outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m. High fan speed indoor unit
- (3) Actual number of connectable indoor units depends on the indoor unit type (VRV indoor, Hydrobox, RA indoor, etc.) and the connection ratio restriction for the system (50% \<= CR \<= 130%)
- (4) Refer to refrigerant pipe selection or installation manual

The STANDARD ESEER value corresponds with normal VRV4 Heat Pump operation, not taking into account advanced energy saving operation functionality

The AUTOMATIC SEER value corresponds with normal VRV4 Heat Pump operation, taking into account advanced energy saving operation functionality (variable refrigerant temperature control operation)

Sound power level is an absolute value that a sound source generates.

Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings.

Sound values are measured in a semi-anechoic room

For more details on standard accessories refer to Installation/operation manual

RLA is based on following conditions: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB

MSC means the maximum current during start up of the compressor. VRV IV uses only inverter compressors. Starting current is always ≤ max. running current.

MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current.

MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker).

TOCA means the total value of each OC set.

FLA: nominal running current fan

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

Maximum allowable voltage range variation between phases is 2%.

In accordance with EN/IEC 61000-3-11, respectively EN/IEC 61000-3-12, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with Zsys \leq Zmax, respectively Ssc \geq minimum Ssc value.

EN/IEC 61000-3-11: European/international technical standard setting the limits for voltage changes, voltage fluctuations and flicker in public low-voltage supply systems for equipment with rated < 75A

EN/IEC 61000-3-12: European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current > 16A and ≤ 75A per phase

Ssc: Short-circuit power

system impedance

Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m

Multi combination (22~54HP) data is corresponding with the standard multi combination as mentioned on 3D079534

Soundpressure system [dBA] = 10*log[10^(A/10)+10^(B/10)+10^(C/10)], with Unit A = A dBA, Unit B = B dBA, Unit C = C dBA

2-3 Technical S	Specifications	5		RXYQQ2 2T	RXYQQ2 4T	RXYQQ2 6T	RXYQQ2 8T	RXYQQ3 0T	RXYQQ3 2T	RXYQQ3 4T	RXYQQ3 6T	RXYQQ3 8T	RXYQQ4 0T
System	Outdoor unit m	Outdoor unit module 1				RXYQQ12T			F	RXYQQ16T			RXYQQ 10T
Outdoor unit module 2				RXYQQ 12T	RXYQQ 16T	RXYQQ 14T	RXYQQ 16T	RXYQQ 18T	RXYQQ 16T	RXYQQ 18T	RXYQQ 20T	RXYQQ 10T	RXYQQ 12T
	Outdoor unit m	odule 3						-				RXYQQ 20T	RXYQQ 18T
Capacity range		22	24	26	28	30	32	34	36	38	40		
Cooling capacity	Nom.		kW	61.5	67.4	73.5	78.5	83.9	90.0	95.4	101.0	106.3	111.9
Heating capacity	Nom.		kW	69.0 (5)	75.0 (5)	82.5 (5)	87.5 (5)	83.9 (5)	100.0 (5)	95.4 (5)	113.0 (5)	106.3 (5)	111.9 (5)
	Max. kW					-		94.0	-	106.5	-	119.0	125.5
Power input - 50Hz	Cooling	Nom.	kW	16.27	18.21	19.98	21.98	24.0	26.0	28.0	31.5	29.2	31.3
	Heating	Nom.	kW	16.48	18.31	20.30	21.90	20.4	25.6	23.7	29.8	25.1	26.7
		Max.	kW		•	-		23.7	-	27.4	-	29.2	31.1
EER				3.78	3.70	3.68	3.57	3.5		3.4	3.2	3	.6
ESEER - Automatic				7.07	6.81	6.89	6.69	6.60	6.50	6.44	6.02	6.36	6.74
ESEER - Standard				5.58	5.42	5.39	5.23	5.17	5.05	5.01	4.68	5.03	5.29
COP - Max.				4.19	4.10	4.06	4.	00	3.91	3.90	3.79	4.1	4.0
COP - Nom.				4.37	4.	25	4.16	4.10	4.05	4.00	3.95	4	.2
Maximum number of	connectable indoo	or units						6	4				
Indoor index	ndex Min.			275	300	325	350	375	400	425	450	475	500
connection	Nom.			550	600	650	700	750	800	850	900	950	1,000
	Max.			715	780	845	910	975	1,040	1,105	1,170	1,235	1,300

2-3 Technical S	2-3 Technical Specifications						RXYQQ2 6T	RXYQQ2 8T	RXYQQ3 0T	RXYQQ3 2T	RXYQQ3 4T	RXYQQ3 6T	RXYQQ3 8T	RXYQQ4 0T
Piping connections	Liquid	Туре							Braze co	nnection				
		mm	15	15.9 19.1										
	Gas	Туре							Braze co	nnection				
		OD		mm	28.6			34	1.9				41.3	
	Piping length	OU - IU	Max.	m					12	20				
		After branch	Max.	m					9	0				
	Total piping length	System	Actual	m					30	00				
	Level difference	OU - IU	Outdoo r unit in highest position	m					5	0				
			Indoor unit in highest position	m	40									
		IU - IU	Max.	m	15									
PED						Category II								

Standard Accessories : Installation manual; Standard Accessories : Connection pipes; Standard Accessories : Operation manual;

2-4 Technical S	Specifications	s		RXYQQ42T
System	Outdoor unit m	nodule 1		RXYQQ10T
	Outdoor unit m	nodule 2		RXYQQ16T
	Outdoor unit m	nodule 3		RXYQQ16T
Capacity range			HP	42
Cooling capacity			kW	118.0
Heating capacity			kW	131.5 (5)
	Max.		kW	
Power input - 50Hz	Cooling	Nom.	kW	33.29
	Heating	Nom.	kW	32.98
		Max.	kW	
EER	•		•	3.54
ESEER - Automatic				6.65
ESEER - Standard				5.19
COP - Max.				3.99
COP - Nom.				4.14
Maximum number of o	connectable indo	or units		64
Indoor index	Min.			525
connection	nnection Nom.			1,050
	Max.			1,365

2-4 Technical Sp	pecifications				RXYQQ42T
Piping connections	tions Liquid Type				Braze connection
	OD mm		mm	19.1	
	Gas	Туре			Braze connection
	OD mm		mm	41.3	
	Piping length	OU - IU	Max.	m	120
		After branch	Max.	m	90
	Total piping length	System	Actual	m	300
	Level difference	OU - IU	Outdoo r unit in highest position	m	50
			Indoor unit in highest position	m	40
		IU - IU	Max.	m	15
PED	ED Category				Category II

Standard Accessories : Installation manual; Standard Accessories : Connection pipes; Standard Accessories : Operation manual;

2-5 Electrical Specifications				RXYQQ2 2T	RXYQQ2 4T	RXYQQ2 6T	RXYQQ2 8T	RXYQQ3 0T	RXYQQ3 2T	RXYQQ3 4T	RXYQQ3 6T	RXYQQ3 8T	RXYQQ4 0T
Current	Current Nominal running Cooling A		Α	22.9	25.2	28.1	30.7	33.5	36.0	38.8	44.9	44.3	43.7
current (RLA) - 50Hz		Heating	Α	22.9	25.2	28.1	30.7	33.5	36.0	38.8	44.9	44.3	43.7
Current - 50Hz	Minimum Ssc value		kVa	1,179	2,140	1,532	1,539	1,488	1,848	1,797	1,894	2,750	2,052
	Minimum circuit amps	(MCA)	Α	46	6.0	51.0	55.0	59.0	62.0	66.0	70.0	76.0	81.0
	Maximum fuse amps	(MFA)	Α		63 80						10	00	
Wiring connections -	For power supply	Quantity			5G								
50Hz	For connection with	Quantity						2	2				
	indoor Remark			F1,F2									
Power supply intake	ower supply intake				Both indoor and outdoor unit								

2-6 Electrical Sp	pecifications			RXYQQ42T				
Current	Nominal running	Cooling	Α	46.2				
	current (RLA) - 50Hz	Heating A		46.2				
Current - 50Hz	Minimum Ssc value		kVa	2,412				
	Minimum circuit amps	s (MCA)	Α	84.0				
	Maximum fuse amps	(MFA) A		100				
Wiring connections -	For power supply	Quantity		5G				
50Hz	For connection with	Quantity		2				
	indoor Remark			F1,F2				
Power supply intake	ower supply intake			Both indoor and outdoor unit				

Notes

- (1) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m
- (2) Heating: indoor temp. 20°CDB, outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m. High fan speed indoor unit
- (3) Actual number of connectable indoor units depends on the indoor unit type (VRV indoor, Hydrobox, RA indoor, etc.) and the connection ratio restriction for the system (50% \<= CR \<= 130%)
- (4) Refer to refrigerant pipe selection or installation manual
- (5) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m

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EN/IEC 61000-3-12: European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current \gt 16A and \gt 75A per phase

Ssc: Short-circuit power

system impedance

Multi combination (22~54HP) data is corresponding with the standard multi combination as mentioned on 3D079534

Soundpressure system [dBA] = $10*log[10^{(A/10)}+10^{(B/10)}+10^{(C/10)}]$, with Unit A = A dBA, Unit B = B dBA, Unit C = C dBA

3 3 - 1 **Options** Options

RYYQ-T RYMQ-T RXYQ-T RXYQQ-T

VRV4 Heat Pump Option list

Item	RXYQ8T RYYQ8T RXYQQ8T		RXYQ10-12T RYYQ10-12T RXYQQ10-12T		RXYQ14-18T RYYQ14-18T RXYQQ14-18T		RXYQ20T RYYQ20T RXYQQ20T		RYYQ22~54T RXYQ22~54T RXYQQ22~42T
					KHRQ2	2M29H			
REFNET HEADER		-				KHRQ:	22M64H		
		-		-		-		KHRQ2	22M75H
					KHRQ	22M20T			
DEENET JOINT					KHRQ2	2M29T9			
REFINET JOINT		-				KHRQ	22M64T		
		-		-		-		KHRQ	22M75T
OUTDOOR MULTI CONNECTION KIT (see note 2)		-		-		-		-	BHFQ22P1007
OUTDOOR MULTI CONNECTION KIT (see note 2)		-		-		-		-	BHFQ22P1517
Item	8HP	10HP	12HP	14HP	16HP	18HP	20HP		
COOL/HEAT SELECTOR (SWITCH)				KRC19-26A			•	1	
COOL/HEAT SELECTOR (PCB)				BRP2A81				1	
COOL/HEAT SELECTOR (SWB MOUNTING PLATE)		-			KKSA2	6A560*		1	
COOL/HEAT SELECTOR (FIXING BOX)				KJB111A					
VRV CONFIGURATOR	EKPCCAB*								
HEATER TAPE KIT (see note 6)	EKBPH012T* EKBPH020T*								
HEATER TAPE KIT PCB	EKBPHPCBT*								
DEMAND PCB (see note 7)	DTA104A61/62*								
DEMAND PCB (MOUNTING PLATE)		-		KKSB26B1*					
	REFNET HEADER OUTDOOR MULTI CONNECTION KIT (see note 2) OUTDOOR MULTI CONNECTION KIT (see note 2) Item COOL/HEAT SELECTOR (SWITCH) COOL/HEAT SELECTOR (PCB) COOL/HEAT SELECTOR (FIXING BOX) VRV CONFIGURATOR HEATER TAPE KIT (see note 6) HEATER TAPE KIT (See note 7)	REFNET HEADER	RYYQ8T	REFNET HEADER	REFNET HEADER	RYYQ8T RYYQ10-12T RYYQ RXYQ0	REYNOLITE	RRYYQBT RRYYQ10-12T RRYYQ14-18T RRY	RYYQ10-12T RYYQ14-18T RYYQ20T RYYQ14-18T RYYQ14-18T RYYQ20T RYYQ14-18T RYYQ14-18T RYYQ20T RYYQ14-18T RYYQ20T RYYQ14-18T RYYQ14-1

NOTES

- 1. All options are kits
 2. Only for multi units
 3. Option 1a and 1b are both required to operate the COOL/HEAT SELECTOR function on a VRV4 Heat Pump System
 4. Option 1d is required to mount 1a
 5. 1c is only required when combining 1b with 3 on a VRV4 Heat Pump system
 6. To install the HEATER TAPE KIT, a HEATER TAPE KIT PCB is required
 7. To install the DEMAND PCB on the Large casing type, the DEMAND PCB (MOUNTING PLATE) is required

Medium casing type VRV4 Heat Pump: modules 8~12HP Large casing type VRV4 Heat Pump: modules 14~20HP

3D079531F

Combination table

4 - 1 **Combination Table**

RXYQQ-T

VRV4 Heat Pump Indoor unit combination Restrictions

Indoor unit combination pattern	VRV* DX indoor	AHU
VRV* DX indoor	0	Х
AHU	Х	0

- Allowed
- Not allowed

NOTES

1) VRV* DX indoor

The non-R410A VRV DX indoor units that can be connected are mentioned in 3D085036

2) Connection of air handling unit through EKEQ* and EKEXV* kit to outdoor unit Pair combination only

3D084966

RXYQQ-T

VRV4-Q Heat Pump non-R410A DX indoor unit compatibility list

Type of indoor unit	Unified models	R22 models
	FXYBP*K7V19	FXYB*K*
Conceiled Ceiling	FXYSP*KA7V19	FXYS*K*
	FXYMP*KV19	FXYM*K*
Ceiling Mounted - 2way blow	FXYCP*K7V19	FXYC*K*
Ceiling Mounted - 4way blow	FXYFP*KB7V19	FXYF*K*
Ceiling Mounted - corner cassette	FXYKP*KV19	FXYK*K*
Ceiling Suspended	FXYHP*KVE9	FXYH*K*
Floor Standing	FXYL(M)P*KV19	FXYL(M)*K*
Wall Mounted	FXYAP*KV19	FXYA*K*

NOTES

Restrictions towards indoor unit connection:

- (1) Only possible to use VRV4-Q if all the indoor units are corresponding to one of the following model groups:
 - All R410A DX models
 - All Unified models: refer to the limited table above. For some models special setting is required. Please contact your dealer for more information.
 - All R22 DX models only models → connection only allowed upon SPN request
- (2) If the indoor units are non-R410A models, a special setting on the outdoor unit is required (explained in the installation manual)
- (3) Combination of
 - Unified models with R410A models is not allowed
 - Unified models with R22 models is not allowed
 - R410A models with R22 models is not allowed
- (4) Replacement of non-R410A AHU systems is possible, only if below requirements are met:
 - in case of an existing ERX* system
 - if AHU coil and field piping can cope with a design pressure of 33bar
 - replacement of control box (EKEQ*) and expansion valve kit (EKEXV*) to R410A type is done
 - AHU-installation in pair (1 outdoor to 1 AHU) is used
- (5) Limitations on use of DX indoor units with VRV4 -Q Heat Pump is subject to rules mentioned in 3D084965 and 3D084966.

3D085036

4 Combination table

4 - 1 Combination Table

RYYQ-T RYMQ-T RXYQ-T RXYQQ-T

VRV4 Heat Pump Standard combination table (multi)

		See Note concerning base moder type						
		8HP	10HP	12HP	14HP	16HP	18HP	20HP
	RXYQ8* / RYYQ8* / RXYQQ8*	1						
	RXYQ10* / RYYQ10* / RXYQQ10*		1					
₹	RXYQ12* / RYYQ12* / RXYQQ12*			1				
_ <u>~</u>	RXYQ14* / RYYQ14* / RXYQQ14*				1			
Heat PUMP	RXYQ16* / RYYQ16* / RXYQQ16*					1		
	RXYQ18* / RYYQ18* / RXYQQ18*						1	
	RXYQ20* / RYYQ20* / RXYQQ20*							1
≨	RXYQ22* / RYYQ22* / RXYQQ22*		1	1				
Multi combination with 2 outdoor units	RXYQ24* / RYYQ24* / RXYQQ24*	1				1		
ip iji	RXYQ26* / RYYQ26* / RXYQQ26*			1	1			
ina	RXYQ28* / RYYQ28* / RXYQQ28*			1		1		
물물	RXYQ30* / RYYQ30* / RXYQQ30*			1			1	
8 5	RXYQ32* / RYYQ32* / RXYQQ32*					2		
1 ₹ 7	RXYQ34* / RYYQ34* / RXYQQ34*					1	1	
2	RXYQ36* / RYYQ36* / RXYQQ36*					1		1
က	RXYQ38* / RYYQ38* / RXYQQ38*	1	1					1
÷	RXYQ40* / RYYQ40* / RXYQQ40*		1	1			1	
lts v	RXYQ42* / RYYQ42* / RXYQQ42*		1			2		
읉								
oor oor	RXYQ46* / RYYQ46*				1	2		
Multi combination with 3 outdoor units	RXYQ48* / RYYQ48*					3		
	RXYQ50* / RYYQ50*					2	1	
Į į	RXYQ52* / RYYQ52*					1	2	
	RXYQ54* / RYYQ54*						3	

See Note concerning base model type

NOTES

RYYQ8~20 = single continuous heating model

RYYQ22~54 = multi continuous heating model

RXYQ8~20 = single non-continuous heating model

RXYQ22~54 = multi non-continuous heating model

RXYQQ8~20 = single non-continuous heating replacement model (VRV4-Q)

- RXYQQ22~42 = multi non-continuous heating replacement model (VRV4-Q)

 Single unit can be chosen: RYYQ* model (continuous heating) and RXYQ* model (non-continuous heating)
- 2) Multi combinations "non-continuous heating" consist out of RXYQ8~20 modules. Eg RXYQ36* = RXYQ16* + RXYQ20*
- 3) Multi combinations "continuous heating" consist out of RYMQ8~20 modules. Eg RYYQ36* = RYMQ16* + RYMQ20*
 - -> multi modules RYMQ* cannot be used as stand alone units (RYMQ8~20HP)
-) Multi combinations can never contain RYYQ8~20 models
- 5) Multi "continuous heating" RYYQ* combinations can never contain RXYQ* models
- 6) Multi "non-continuous heating" RXYQ* combinations can never contain RYMQ* models
- 7) Multi "non-continuous heating" replacement models only consist out of RXYQQ8-20 modules. Eg RXYQQ36* = RXYQQ16* + RXYQQ20*
- Replacement models can never be combined with other models

3D079534B

5 - 1 Capacity Table Legend

In order to fulfill more your requirements on quick access of data in the format you require, we have developed a tool to consult capacity tables.

Below you can find the link to the capacity table database and an overview of all the tools we have to help you select the correct product:

- Capacity table database: lets you find back and export quickly the capacity information you are looking for based upon unit model, refrigerant temperature and connection ratio.
 - → http://extranet.daikineurope.com/captab
- E-data app: gives a complete overview of the Daikin products available in your country, with all engineering data and commercial info in your own language. Download the app now!
 - → https://itunes.apple.com/us/app/daikin-e-data/id565955746?mt=8



- Selection software: allows you to do load calculations, equipment selections and energy simulations for our VRV, Daikin Altherma, refrigeration and applied systems products.
 - → http://extranet.daikineurope.com/en/software/downloads/default.jsp

5 - 2 **Integrated Heating Capacity Correction Factor**

RYYQ-T RXYQ-T **RXYQQ-T**

The heating capacity tables do not take account of the reduction in capacity, when frost has accumulated or while the defrosting operation is in progress. The capacity values, which take these factors into account, in other words, the integrated heating capacity values, can be calculated as follows:

Formula: Integrated heating capacity = A Value given in table of capacity characteristics = B Integrating correction factor for frost accumulation (kW) = C A = B x C

Inlet air temperature of heat exchanger

[°CDB/°CWB]	-7/-7.6	-5/-5.6	-3/-3.7	0/-0.7	3/2.2	5/4.1	7/6
-------------	---------	---------	---------	--------	-------	-------	-----

Integrated correction factor for frost accumulation (C)

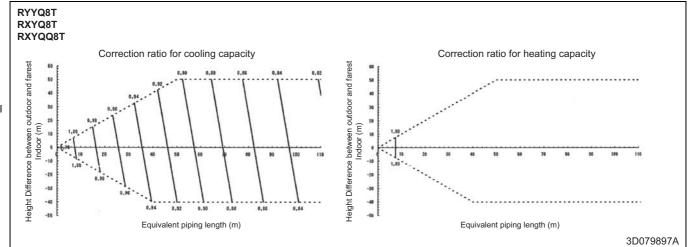
0.95	0.93	0.88	0.84	0.85	0.90	1.00

NOTES

- 1. The figure shows that the integrated heating capacity expresses the integrated capacity for a single cycle (from defrost operation to defrost operation) in terms or time.
- 2. Note that, when there is an accumulation of snow against the outside surface of the outdoor unit heat exchanger, there will always be a temporary reduction in capacity, although this will of course vary in degree in accordance with a number of other factors, such as the outdoor temperature (°CDB), relative humidity (RH) and the amount of frosting which occurs.
- 3. Multi combination (22~54HP) data is corresponding with the standard multi combination as mentioned on 3D079534

3D079898

Capacity Correction Factor



NOTES

- These figures illustrate the correction ratio for piping length in capacity for 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 for the capacity correction ratio, shown it the above figures.
- With this outdoor unit, constant evaporating pressure control when cooling and constant condensing pressure control when heating is carried out.
- Method of calculating the capacity of the outdoor units

The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is smaller.

Condition: Indoor connection ratio does not exceed 100%

Maximum capacity of outdoor units

Capacity of outdoor units from capacity table at the 100% connection ratio

х Correction ratio of piping to furthest indoor

Condition: Indoor connection ratio exceeds 100%

Maximum capacity of outdoor units

Capacity of outdoor units from capacity table at installed connection ratio

x | Correction ratio of piping to furthest indoor

When level difference is 50 m or more (see installation manual and 3D079540 / 3D079543) and equivalent pipe length is 90 m or more, the diameter of the main gas and liquid pipes (outdoor unit - branch sections) must be increased.

For new diameters, see below.

Model	Gas	Liquid
8HP	22.2	12.7

When the pipe length after the first refrigerant branch kit is more than 40 m, pipe size between first and final branch kit must be increased (only for VRV DX indoor units; details see installation manual).

*Refer to the installation manual for allowed system setups and rules for deicated indoor connection types.

Diameter of main pipes (standard size)

		,
Model	Gas	Liquid
8HP	19.1	9.5

Equivalent length used in the above figures is based upon the following equivalent length

Equivalent piping length

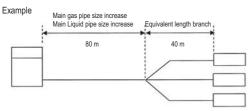
Equivalent length of main pipe

Correction factor

Equivalent length of branch pipes

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

	Correction factor			
	Standard size	Size increase		
Cooling (gas pipe)	1.0	0.5		
Heating (liquid pipe)	1.0	0.5		

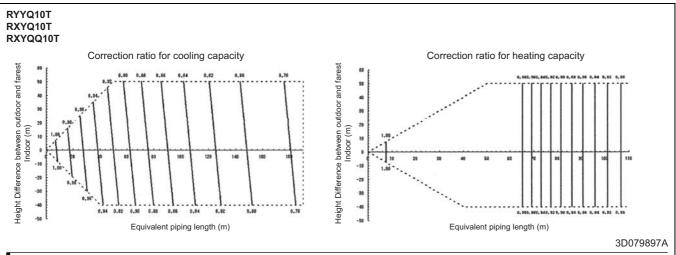


In the above case

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

(Heating) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m
The rete of change in cooling capacity when height difference = 0 is thus approximately 0.86 heating capacity when height difference = 0 is thus approximately 1.0

5 - 3 Capacity Correction Factor



NOTES

- These figures illustrate the correction ratio for piping length in capacity for 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 for the capacity correction ratio, shown it the above figures.
- 2. With this outdoor unit, constant evaporating pressure control when cooling and constant condensing pressure control when heating is carried out.
- Method of calculating the capacity of the outdoor units

The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is smaller.

Condition: Indoor connection ratio does not exceed 100%

Maximum capacity of outdoor units

Capacity of outdoor units from capacity table at the 100% connection ratio

x Correction ratio of piping to furthest indoor

Condition: Indoor connection ratio exceeds 100%

Maximum capacity of outdoor units

Capacity of outdoor units from capacity table at installed connection ratio

Correction ratio of piping to furthest indoor

4. When level difference is 50 m or more (see installation manual and 3D079540 / 3D079543) and equivalent pipe length is 90 m or more, the diameter of the main gas and liquid pipes (outdoor unit - branch sections) must be increased. For new diameters, see below.

Model	Gas	Liquid
RXYQ10P	25.4*	12.7

*If not available on site, do not increase. If not increased correction factor should be applied to the equivalent length (see note 6).

When the pipe length after the first refrigerant branch kit is more than 40 m, pipe size between first and final branch kit must be increased (only for VRV DX indoor units; details see installation manual).

*Refer to the installation manual for allowed system setups and rules for dedicated indoor connection types.

Diameter of main pipes (standard size)

Model	Gas	Liquid
10 HP	22.2	9.5

6. Equivalent length used in the above figures is based upon the following equivalent length

Equivalent piping length

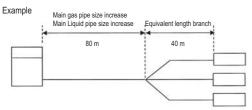
Equivalent length of main pipe

x Correction factor

Equivalent length of branch pipes

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

	Correction factor			
	Standard size	Size increase		
Cooling (gas pipe)	1.0	0.5		
Heating (liquid pipe)	1.0	0.5		

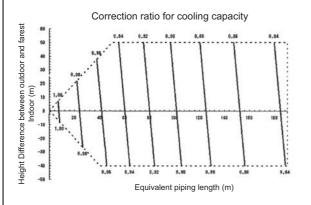


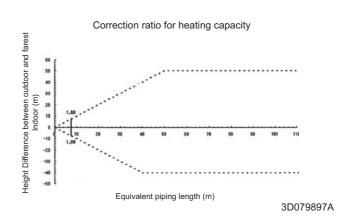
In the above case (Cooling) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m

(Heating) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m

The rete of change in cooling capacity when height difference = 0 is thus approximately 0.87 heating capacity when height difference = 0 is thus approximately 0.90

RYYQ12,14,24,36T RXYQ12.14.24.36T RXYQQ12,14,24,36T





NOTES

- These figures illustrate the correction ratio for piping length in capacity for 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 for the capacity correction ratio, shown it the above figures.
- With this outdoor unit, constant evaporating pressure control when cooling and constant condensing pressure control when heating is carried out.
- Method of calculating the capacity of the outdoor units

The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is smaller.

Condition: Indoor connection ratio does not exceed 100%.

Maximum capacity of outdoor units

- = Capacity of outdoor units from capacity table at the 100% connection ratio
- X Correction ratio of piping to furthest indoor

Condition: Indoor connection ratio exceeds 100%

Maximum capacity of outdoor units

- = Capacity of outdoor units from capacity table at installed connection ratio
- x Correction ratio of piping to furthest indoor
- When level difference is 50 m or more (see installation manual and 3D079540 / 3D079543) and equivalent pipe length is 90 m or more, the diameter of the main gas and liquid pipes (outdoor unit - branch sections) must be increased. For new diameters, see below.

Model	Gas	Liquid
12 HP	28.6	15.9
14 HP	28.6	15.9
24 HP	34.9	19.1
36 HP	41.3	22.2

When the pipe length after the first refrigerant branch kit is more than 40 m, pipe size between first and final branch kit must be increased (only for VRV DX indoor units; details see installation manual).

*Refer to the installation manual for allowed system setups and rules for dedicated indoor connection types

Diameter of main pipes (standard size)

Model	Gas	Liquid
12 HP	28.6	12.7
14 HP	28.6	12.7
24 HP	34.9	15.9
36 HP	41.3	19.1

Equivalent length used in the above figures is based upon the following equivalent length

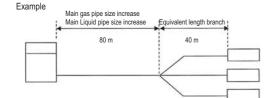
Equivalent piping length

Equivalent length of main pipe x Correction factor

Equivalent length of branch pipes

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

	Correction factor	
	Standard size	Size increase
Cooling (gas pipe)	1.0	
Heating (liquid pipe)	1.0	0.5



In the above case

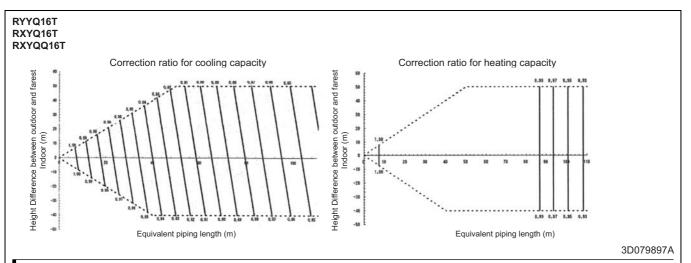
(Cooling) Overall equivalent length = 80 m x 1.0 + 40 m = 120 m

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

The rate of change in cooling capacity when height difference = 0 is thus approximately 0.89

heating capacity when height difference = 0 is thus approximately 1.0

5 - 3 Capacity Correction Factor



NOTES

- These figures illustrate the correction ratio for piping length in capacity for 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 for the capacity correction ratio, shown it the above figures.
- 2. With this outdoor unit, constant evaporating pressure control when cooling and constant condensing pressure control when heating is carried out.
- 3. Method of calculating the capacity of the outdoor units

The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is smaller.

Condition: Indoor connection ratio does not exceed 100%.

Maximum capacity of outdoor units

= Capacity of outdoor units from capacity table at the 100% connection ratio

X Correction ratio of piping to furthest indoor

Condition: Indoor connection ratio exceeds 100%

Maximum capacity of outdoor units

= Capacity of outdoor units from capacity table at installed connection ratio

x Correction ratio of piping to furthest indoor

4. When level difference is 50 m or more (see installation manual and 3D079540 / 3D079543) and equivalent pipe length is 90 m or more, the diameter of the main gas and liquid pipes (outdoor unit - branch sections) must be increased. For new diameters, see below.

Model	Gas	Liquid
16 HP	31.8*	15.9

*If not available on site, do not increase. If not increased correction factor should be applied to the equivalent length (see note 6).

When the pipe length after the first refrigerant branch kit is more than 40 m, pipe size between first and final branch kit must be increased (only for VRV DX indoor units; details see installation manual).

*Refer to the installation manual for allowed system setups and rules for dedicated indoor connection types.

Diameter of main pipes (standard size)

Model	Gas	Liquid
16 HP	28.6	12.7

6. Equivalent length used in the above figures is based upon the following equivalent length

Equivalent piping length

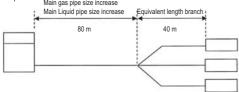
Equivalent length of main pipe x Correction factor

+
Equivalent length of branch pipes

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

	Correct	Correction factor	
	Standard size	Size increase	
Cooling (gas pipe)	1.0	0.5	
Heating (liquid pipe)	1.0	0.5	



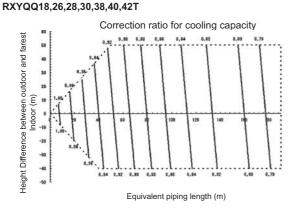


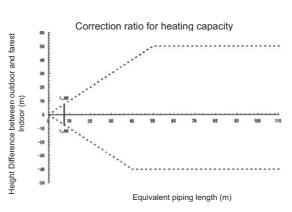
In the above case (Cooling) Ov

(Cooling) Overall equivalent length = 80 m x 1.0 + 40 m = 80 m (Heating) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m \times

The rate of change in cooling capacity when height difference = 0 is thus approximately 0.88 heating capacity when height difference = 0 is thus approximately 0.99

RYYQ18,26,28,30,38,40,42,44T RXYQ18.26.28.30.38.40.42.44T





3D079897A

NOTES

- These figures illustrate the correction ratio for piping length in capacity for 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 for the capacity correction ratio, shown it the above figures.
- With this outdoor unit, constant evaporating pressure control when cooling and constant condensing pressure control when heating is carried out.
- Method of calculating the capacity of the outdoor units

The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is smaller.

Condition: Indoor connection ratio does not exceed 100%.

Maximum capacity of outdoor units

= Capacity of outdoor units from capacity table at the 100% connection ratio

X Correction ratio of piping to furthest indoor

Condition: Indoor connection ratio exceeds 100%

Maximum capacity of outdoor units

= Capacity of outdoor units from capacity table at installed connection ratio

x Correction ratio of piping to furthest indoor

When level difference is 50 m or more (see installation manual and 3D079540 / 3D079543) and equivalent pipe length is 90 m or more, the diameter of the main gas and liquid pipes (outdoor unit - branch sections) must be increased. For new diameters, see below.

Model	Gas	Liquid
18 HP	31.8*	19.1
26~30 HP	38.1*	22.2
38~44 HP	41.3	22.2

*If not available on site, do not increase. If not increased correction factor should be applied to the equivalent length (see note 6).

When the pipe length after the first refrigerant branch kit is more than 40 m, pipe size between first and final branch kit must be increased (only for VRV DX indoor units; details see installation manual).

*Refer to the installation manual for allowed system setups and rules for dedicated indoor connection types.

Diameter of main pipes (standard size)

Model	Gas	Liquid
18 HP	28.6	15.9
26~30 HP	34.9	19.1
38~44 HP	41.3	19.1

Equivalent length used in the above figures is based upon the following equivalent length

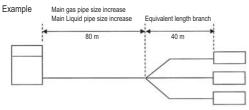
Equivalent piping length

Equivalent length of main pipe x Correction factor

Equivalent length of branch pipes

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

	Correction factor	
	Standard size	Size increase
Cooling (gas pipe)	1.0	0.5
Heating (liquid pipe)	1.0	0.5



In the above case (for RXYQ38-44) (Cooling) Overall equivalent length = $80 \text{ m} \times 1.0 + 40 \text{ m} = 120 \text{ m}$

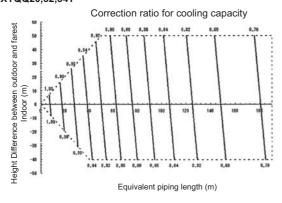
(Heating) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m The rate of change in

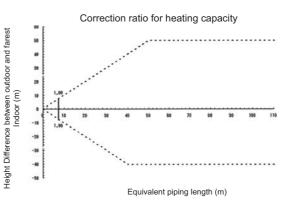
cooling capacity when height difference = 0 is thus approximately 0.83 heating capacity when height difference = 0 is thus approximately 1.0

VDAIKIN • VRV Systems • RXYQQ-T

Capacity Correction Factor

RYYQ20,32,34T RXYQ20.32.34T RXYQQ20,32,34T





3D079897A

NOTES

- These figures illustrate the correction ratio for piping length in capacity for 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 for the capacity correction ratio, shown it the above figures
- With this outdoor unit, constant evaporating pressure control when cooling and constant condensing pressure control when heating is carried out.
- 3. Method of calculating the capacity of the outdoor units

The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is smaller.

Condition: Indoor connection ratio does not exceed 100%

Maximum capacity of outdoor units

= Capacity of outdoor units from capacity table at the 100% connection ratio

X Correction ratio of piping to furthest indoor

Condition: Indoor connection ratio exceeds 100%

Maximum capacity of outdoor units

= Capacity of outdoor units from capacity table at installed connection ratio

x Correction ratio of piping to furthest indoor

When level difference is 50 m or more (see installation manual and 3D079540 / 3D079543) and equivalent pipe length is 90 m or more, the diameter of the main gas and liquid pipes (outdoor unit - branch sections) must be increased

For new diameters, see below

Model	Gas	Liquid
20 HP	31.8*	19.1
32/34 HP	38.1*	22.2

*If not available on site, do not increase. If not increased correction factor should be applied to the equivalent length (see note 6)

When the pipe length after the first refrigerant branch kit is more than 40 m, pipe size between first and final branch kit must be increased (only for VRV DX indoor units; details see installation manual).

*Refer to the installation manual for allowed system setups and rules for dedicated indoor connection types

Diameter of main pipes (standard size)

Model	Gas	Liquid
20 HP	28.6	15.9
32/34 HP	34.9	19 1

Equivalent length used in the above figures is based upon the following equivalent length

Equivalent piping length

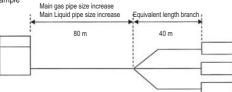
Equivalent length of main pipe x Correction factor

Equivalent length of branch pipes

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

	Correction factor	
	Standard size	Size increase
Cooling (gas pipe)	1.0	0.5
Heating (liquid pipe)	1.0	0.5

Example



In the above case

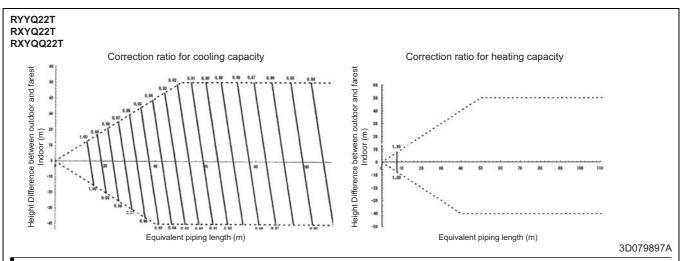
(Cooling) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m

(Heating) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m

The rate of change in cooling capacity when height difference = 0 is thus approximately 0.88

heating capacity when height difference = 0 is thus approximately 1.0

5 - 3 Capacity Correction Factor



NOTES

- These figures illustrate the correction ratio for piping length in capacity for 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 for the capacity correction ratio, shown it the above figures.
- 2. With this outdoor unit, constant evaporating pressure control when cooling and constant condensing pressure control when heating is carried out.
- Method of calculating the capacity of the outdoor units

The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is smaller.

Condition: Indoor connection ratio does not exceed 100%.

Maximum capacity of outdoor units = Capacity of outdoor units from capacity table at the 100% connection ratio

x Correction ratio of piping to furthest indoor

Condition: Indoor connection ratio exceeds 100%

Maximum capacity of outdoor units

- = Capacity of outdoor units from capacity table at installed connection ratio
- x Correction ratio of piping to furthest indoor
- When level difference is 50 m or more (see installation manual and 3D079540 / 3D079543) and equivalent pipe length is 90 m or more, the diameter of the main gas and liquid pipes (outdoor unit branch sections) must be increased.

Torrion diamotoro, oco bolon.			
	Model	Gas	Liquid
	22 HP	31.8*	19.1

^{*} If not available on site, do not increase, if not increased, no correction factor should be applied to the equivalent length (see note 6)

When the pipe length after the first refrigerant branch kit is more than 40 m, pipe size between first and final branch kit must be increased (only for VRV DX indoor units; details see installation manual).

*Refer to the installation manual for allowed system setups and rules for dedicated indoor connection types

Diameter of main pipes (standard size)

Model	Gas	Liquid
22 HP	28.6	15.9

6. Equivalent length used in the above figures is based upon the following equivalent length

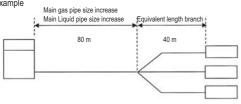
Overal equivalent length

Equivalent length of main pipe x Correction factor

Equivalent length of branch pipes

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

	Correction factor		
	Standard size	Size increase	
Cooling (gas pipe)	1.0	0.5	
Heating (liquid pipe)	1.0	0.5	
•			



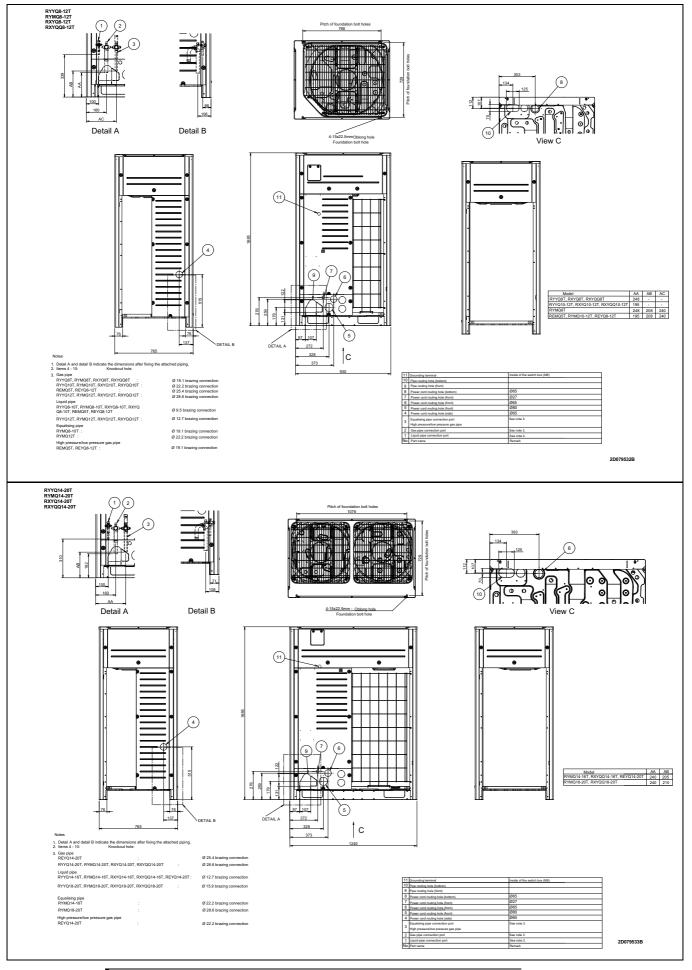
In the above case (Cooling) Overall equivalent length = $80 \text{ m} \times 0.5 + 40 \text{ m} = 80 \text{ m}$

(Heating) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m

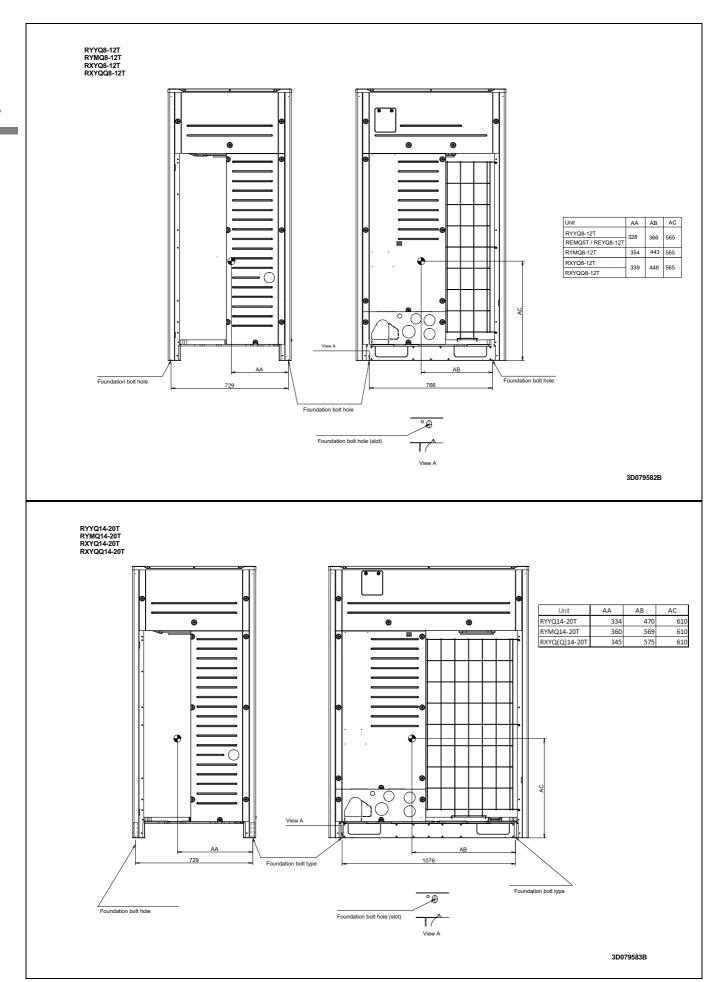
The rate of change in cooling capacity when height difference = 0 is thus approximately 0.88 heating capacity when height difference = 0 is thus approximately 1.0

Dimensional drawings Dimensional Drawings 6

6 - 1



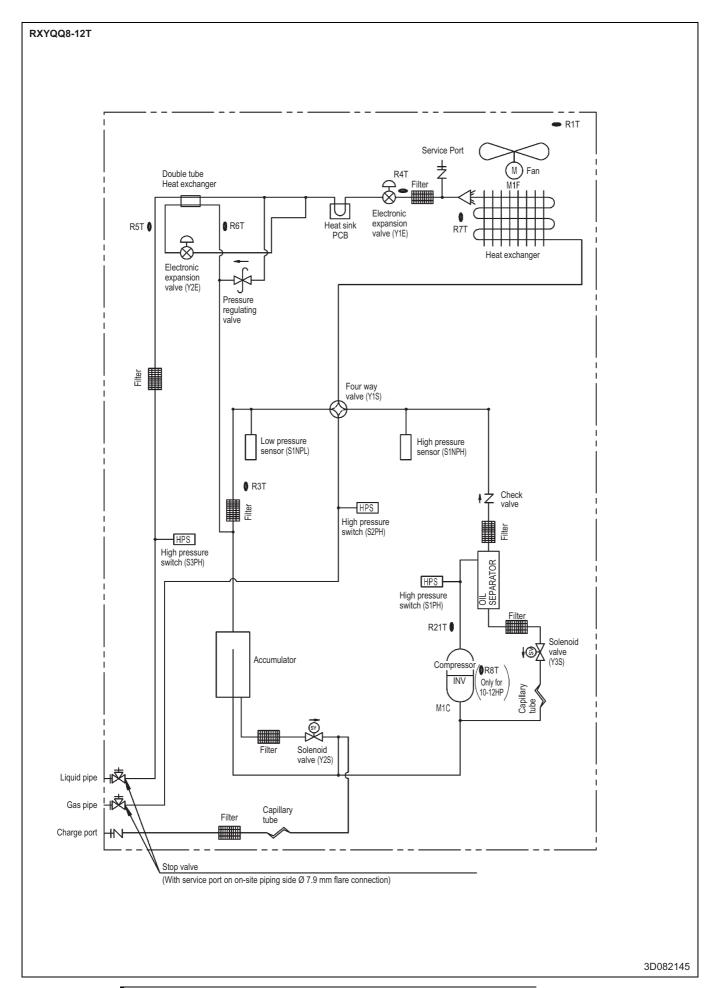
7 - 1



7

Piping diagramsPiping Diagrams 8

8 - 1



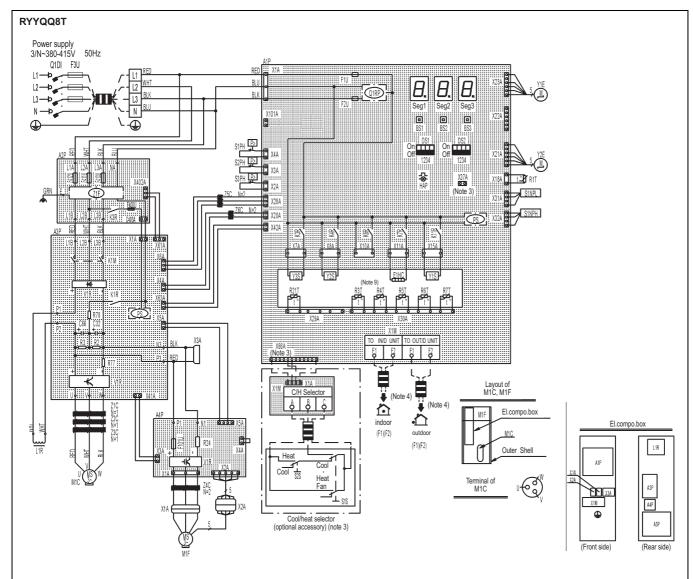
Piping diagramsPiping Diagrams

8 - 1

RXYQQ14-20T R1T Service Double tube Heat exchanger M Electronic expansion R6T Heat sink PCB R5T 🛭 R7T valve (Y1E) Heat exchanger Electronic expansion valve (Y2E) Pressure regulating valve File Four way valve (Y1S) Low pressure sensor (S1NPL) High pressure sensor (S1NPH) R3T HPS Check Check HPS High pressure valve High pressure switch (S4PH) Filter switch (S3PH) Filter OIL SEPARATOR HPS High pressure switch (S2PH) High pressure switch (S1PH) Filter Filter Solenoid R22T R21T 0 valve (Y3S) Solenoid valve (Y4S) Accumulator Compresso **0** R8T INV Capillary tube Capillary tube INV Only for 18-20HP M2C M1C Solenoid valve (Y2S) Liquid pipe Gas pipe Capillary Filter Charge port (With service port on on-site piping side Ø 7.9 mm flare connection) 3D082146

8

9 - 1 Wiring Diagrams - Three Phase



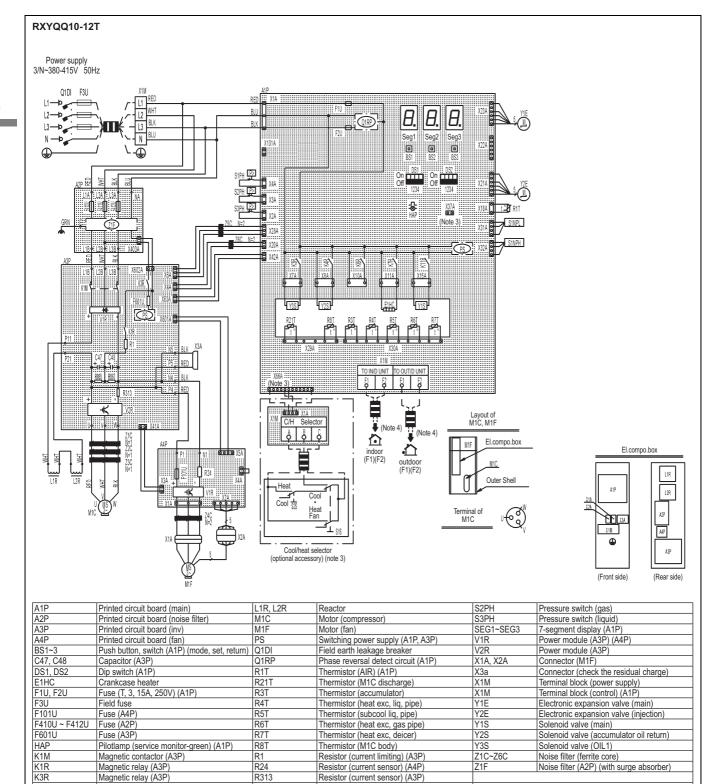
A1P	Printed circuit board (main)	M1C	Motor (compressor)	V1R	Power module (A3P) (A4P)
A2P	Printed circuit board (noise filter)	M1F	Motor (fan)	X1A, X2A	Connector (M1F)
A3P	Printed circuit board (inv)	PS	Switching power supply (A1P, A3P)	X3A	Connector (check the residual charge)
A4P	Printed circuit board (fan)	Q1DI	Field earth leakage breaker	X1M	Terminal block (power supply)
BS1~3	Push button, switch (A1P) (mode, set, return)	QR1P	Phase reversal detect circuit (A1P)	X1M	Terminal block (control) (A1P)
C32, C66	Capacitor (A3P)	R1T	Thermistor (AIR) (A1P)	Y1E	Electronic expansion valve (main)
DS1, DS2	Dip switch (A1P)	R21T	Thermistor (M1C discharge)	Y2E	Electronic expansion valve (injection)
E1HC	Crankcase heater	R3T	Thermistor (accumulator)	Y1S	Solenoid valve (main)
F1U, F2U	Fuse (T, 3, 15A, 250V) (A1P)	R4T	Thermistor (heat exc, liq, pipe)	Y2S	Solenoid valve (accumulator oil return)
F3U	Field fuse	R5T	Thermistor (subcool liq, pipe)	Y3S	Solenoid valve (OIL1)
F101U	Fuse (A4P)	R6T	Thermistor (heat exc, gas pipe)	Z1C~Z6C	Noise filter (ferrite core)
F400U	Fuse (A2P)	R7T	Thermistor (heat exc, deicer)	Z1F	Noise filter (A2P) (with surge absorber)
F410U ~ F412U	Fuse (A2P)	R2, R3	Resistor (A3P)		
HAP	Pilotlamp (service monitor-green)	R24	Resistor (current sensor) (A4P)		
K1M	Magnetic relay (A3P)	R77	Resistor (current sensor) (A3P)		
K1R	Magnetic relay (A3P)	R78	Resistor (current limiting) (A3P)		
K3R	Magnetic relay (A2P)	S1NPH	Pressure sensor (high)		
K3R	Magnetic relay (Y3S) (A1P)	S1NPL	Pressure sensor (low)		
K4R	Magnetic relay (Y2S) (A1P)	S1PH	Pressure switch (disch)	Co	nnector for optional accessories
K7R	Magnetic relay (E1HC) (A1P)	S2PH	Pressure switch (gas)	X37A	Connector (power adapter)
K11R	Magnetic relay (Y1S) (A1P)	S3PH	Pressure switch (liquid)	X66A	Connector (remote switching cool/heat selector)
L1R	Reactor	SEG1~SEG3	7-segment display (A1P)		

NOTES

- 1. This wiring diagram applies only to the outdoor unit.
- 2. --•••• : terminal block, Oo: connector, ---: terminal, : Protective earth (SREW)
 3. When using the optional adapter, refer to the installation manual of the optional adapter.
- when using the optional adapter, refer to the installation manual of the optional adapter.
 For connection wiring to indoor-outdoor transmission F1-F2, outdoor-outdoor transmission F1-F2, refer to the installation manual.
 How to use BS1⁻3 switch. Refer to "service precaution" label on el. compo. box cover.
 When operating, don't shortcircuit the protection devices (S1PH~S3PH)
 Colors blk: black, red: red, blu: blue, wht: white, grn: green.

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9 - 1 Wiring Diagrams - Three Phase



NOTES

K3R

K4R

K11R

1. This wiring diagram applies only to the outdoor unit.

Magnetic relay (Y3S) (A1P) Magnetic relay (Y2S) (A1P)

Magnetic relay (Y1S) (A1P)

Magnetic relay (E1HC) (A1P)

- 2. == field wiring, ____: terminal block, ___: connector, ___: terminal, __: Protective earth (SREW)
- 3. When using the optional adapter, refer to the installation manual of the optional adapter.
- $4. \ \ For connection wiring to indoor-outdoor \, transmission \, F1-F2, \, outdoor-outdoor \, transmission \, F1-F2, \, refer to \, the \, installation \, manual.$

R865, R867

S1NPH

Resistor (A3P)

Pressure sensor (high)

Pressure sensor (low)

Pressure switch (disch)

- 5. How to use BS1~3 switch. Refer to "service precaution" label on el. compo. box cover.
- 6. When operating, don't shortcircuit the protection devices (S1PH ~ S3PH).
- 7. Colors BLK: Black; RED: Red; BLU: Blue, WHT: White; GRN: Green.

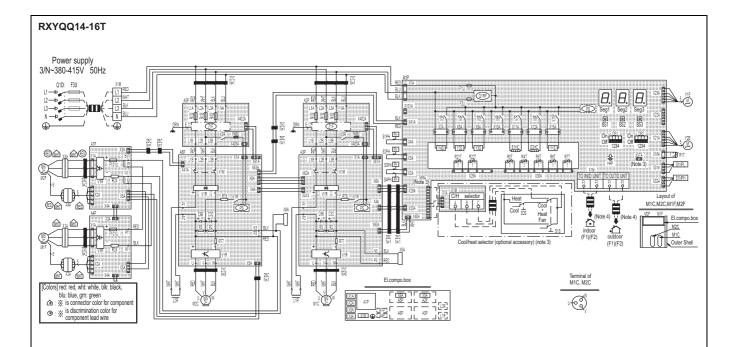
2D082298A

Connector for optional accessories

Connector (power adapter)

Connector (remote switching cool/heat selector)

9 - 1 Wiring Diagrams - Three Phase



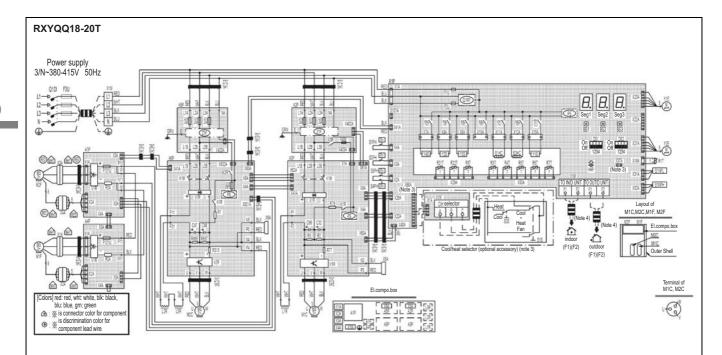
A1P	Printed circuit board (main)	K11R	Magnetic relay (Y1S) (A1P)	S4PH	Pressure switch (liquid)
A2P, A5P	Printed circuit board (noise filter)	L1R, L2R	Reactor	SEG1~SEG3	7-segment display (A1P)
A3P, A6P	Printed circuit board (inv)	M1C, M2C	Motor (compressor)	V1R	Power module (A3P, A6P)
A4P, A7P	Printed circuit board (fan)	M1F, M2F	Motor (fan)	V1R	Power module (A4P, A7P)
BS1~3	Push button, switch (A1P) (mode, set, return)	PS	Switching power supply (A1P, A3P, A6P)	X1A~4A	Connector (M1F, M2F)
C32, C66	Capacitor (A3P), (A6P)	Q1DI	Field earth leakage breaker	X5A~X6A	Connector (check the residual charge)
DS1, DS2	Dip switch (A1P)	Q1RP	Phase reversal detect circuit (A1P)	X1M	Terminal block (power supply)
E1HC, E2HC	Crankcase heater	R2, R3	Resistor (A3P, A6P)	X1M	Terminal block (control) (A1P)
F1U, F2U	Fuse (T, 3, 15A, 250V) (A1P)	R24	Resistor (current sensor) (A4P, A7P)	Y1E	Electronic expansion valve (main)
F3U	Field fuse	R77	Resistor (current sensor) (A3P, A6P)	Y2E	Electronic expansion valve (injection)
F101U	Fuse (A4P, A7P)	R78	Resistor (current limiting) (A3P, A6P)	Y1S	Solenoid valve (main)
F400U	Fuse (A2P, A5P)	R1T	Thermistor (AIR) (A1P)	Y2S	Solenoid valve (accumulator oil return)
F410U ~ F412U	Fuse (A2P, A5P)	R21T, R22T	Thermistor (M1C, MC2 discharge)	Y3S	Solenoid valve (OIL1)
HAP	Pilotlamp (service monitor-green)	R3T	Thermistor (accumulator)	Y4S	Solenoid valve (OIL2)
K1M	Magnetic contactor (A3P, A6P)	R4T	Thermistor (heat exc, liq, pipe)	Z1C~Z7C	Noise filter (ferrite core)
K1R	Magnetic relay (A3P, A6P)	R5T	Thermistor (subcool liq, pipe)	Z1F	Noise filter (A2P, A5P) (with surge absorber)
K3R	Magnetic relay (A2P, A5P)	R6T	Thermistor (heat exc, gas pipe)		
K3R	Magnetic relay (Y4S) (A1P)	R7T	Thermistor (heat exc, deicer)		
K4R	Magnetic relay (Y2S) (A1P)	S1NPH	Pressure sensor (high)		
K5R	Magnetic relay (Y3S) (A1P)	S1NPL	Pressure sensor (low)	Co	nnector for optional accessories
K7R	Magnetic relay (E1HC) (A1P)	S1PH, S2PH	Pressure switch (disch)	X37A	Connector (power adapter)
K8R	Magnetic relay (E2HC) (A1P)	S3PH	Pressure switch (gas)	X66A	Connector (remote switching cool/heat selector)

NOTES

- 1. This wiring diagram applies only to the outdoor unit.
- 2. == field wiring, ____: terminal block, OO: connector, -O-: terminal, Disconnector, -O-: terminal,
- When using the optional adapter, refer to the installation manual of the optional adapter.
- 4. For connection wiring to indoor-outdoor transmission F1-F2, outdoor-outdoor transmission F1-F2, refer to the installation manual.
- 5. How to use BS1~3 switch. Refer to "service precaution" label on el, compo, box cover.
- 6. When operating, don't shortcircuit the protection devices (S1PH ~ S4PH).

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9 - 1 Wiring Diagrams - Three Phase



AAD	D: () : () () ()	140 100	In (I O 4 D L I	D 3(1/0) 10
A1P	Printed circuit board (main)	L1R ~ L3R	Reactor	S4PH	Pressure switch (liquid)
A2P, A5P	Printed circuit board (noise filter)	M1C, M2C	Motor (compressor)	SEG1~SEG3	7-segment display (A1P)
A3P, A6P	Printed circuit board (inv)	M1F, M2F	Motor (fan)	V1R	Power module (A3P, A6P)
A4P, A7P	Printed circuit board (fan)	PS	Switching power supply (A1P, A3P, A6P)	V1R	Power module (A4P, A7P)
BS1~3	Push button, switch (A1P) (mode, set, return)	Q1DI	Field earth leakage breaker	V2R	Power module (A6P)
C32, C66	Capacitor (A3P)	Q1RP	Phase reversal detect circuit (A1P)	X1A~4A	Connector (M1F, M2F)
C47, C48	Capacitor (A6P)	R1	Resistor (current limiting) (A6P)	X5A~X6A	Connector (check the residual charge)
DS1, DS2	Dip switch (A1P)	R2, R3	Resistor (A3P)	X1M	Terminal block (power supply)
E1HC, E2HC	Crankcase heater	R24	Resistor (current sensor) (A4P, A7P)	X1M	Terminal block (control) (A1P)
F1U, F2U	Fuse (T, 3, 15A, 250V) (A1P)	R77	Resistor (current sensor) (A3P)	Y1E	Electronic expansion valve (main)
F101U	Fuse (A4P, A7P)	R78	Resistor (current limiting) (A3P)	Y2E	Electronic expansion valve (injection)
F3U	Field fuse	R313	Resistor (current censor) (A6P)	Y1S	Solenoid valve (main)
F400U	Fuse (A2P)	R865, R867	Resistor (A6P)	Y2S	Solenoid valve (accumulator oil return)
F410U ~ F412U	Fuse (A2P, A5P)	R1T	Thermistor (AIR) (A1P)	Y3S	Solenoid valve (OIL1)
F601U	Fuse (A6P)	R21T, R22T	Thermistor (M1C, MC2 discharge)	Y4S	Solenoid valve (OIL2)
HAP	Pilotlamp (A1P) (service monitor-green)	R3T	Thermistor (accumulator)	Z1C~Z7C	Noise filter (ferrite core)
K1M	Magnetic contactor (A3P, A6P)	R4T	Thermistor (heat exc, liq, pipe)	Z1F	Noise filter (A2P, A5P) (with surge absorber)
K1R	Magnetic relay (A3P, A6P)	R5T	Thermistor (subcool lig, pipe)		
K3R	Magnetic relay (A2P, A6P)	R6T	Thermistor (heat exc, gas pipe)		
K3R	Magnetic relay (Y4S) (A1P)	R7T	Thermistor (heat exc, deicer)		
K4R	Magnetic relay (Y2S) (A1P)	R8T	Thermistor (M2C, body)		
K5R	Magnetic relay (Y3S) (A1P)	S1NPH	Pressure sensor (high)		
K7R	Magnetic relay (E1HC) (A1P)	S1NPL	Pressure sensor (low)	Co	nnector for optional accessories
K8R	Magnetic relay (E2HC) (A1P)	S1PH, S2PH	Pressure switch (disch)	X37A	Connector (power adapter)
K11R	Magnetic relay (Y1S) (A1P)	S3PH	Pressure switch (gas)	X66A	Connector (remote switching cool/heat selector)

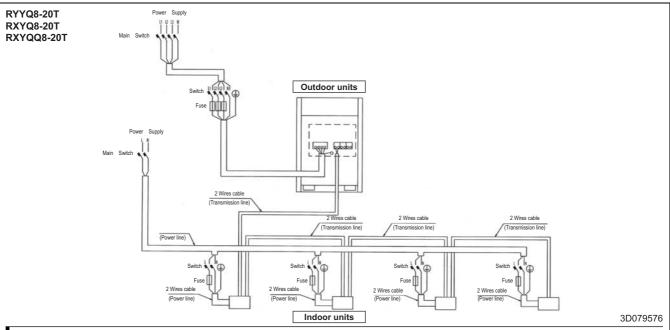
NOTES

- 1. This wiring diagram applies only to the outdoor unit.
- 2. == field wiring, _____: terminal block, ____: connector, ___: terminal, ___: Protective earth (SREW)
- 3. When using the optional adapter, refer to the installation manual of the optional adapter.
- 4. For connection wiring to indoor-outdoor transmission F1-F2, outdoor-outdoor transmission F1-F2, refer to the installation manual.
- 5. How to use BS1~3 switch. Refer to "service precaution" label on el. compo. box cover.
- 6. When operating, don't shortcircuit the protection devices (S1PH ~ S4PH).

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External connection diagrams

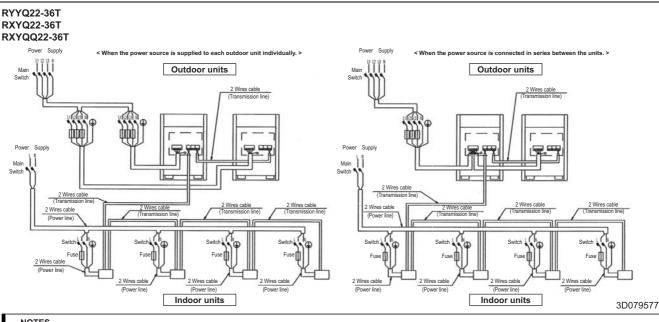
10 - 1 External Connection Diagrams



NOTES

- All wiring, components and materials to be procured on the site must comply with the applicable local and national codes.
- Use copper conductors only.
 As for details, see wiring diagram.
- Install circuit breaker for safety.
- All field wiring and components must be provided by licensed electrician.
- Unit shall be grounded in compliance with the applicable local and national codes
- Wiring shown are general points-of-connection guides only and are not intended for or to include all details for a specific installation.
- Be sure to install the switch and the fuse to the power line of each equipement.

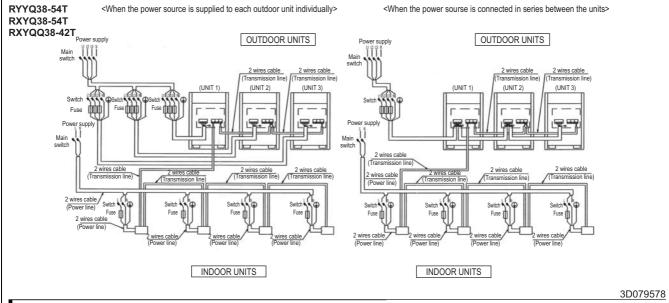
 Install the main switch that can interrupt all the power sources in an integrated manner because this system consists of the equipment utilizing the multiple power sources.
- 10. If there exists the possibility of reversed phase, lose phase, momentary blackout or the power goes on and off while the product is operating, attach a reversed phase protection circuit locally. Running the product in reversed phase may break the compressor and other parts
- 11. Must install earth leakage circuit breaker



- All wiring, components and materials to be procured on the site must comply with the applicable local and national codes.
- Use copper conductors only.
- As for details, see wiring diagram.
- Install circuit breaker for safety.
- All field wiring and components must be provided by licensed electrician.
- Unit shall be grounded in compliance with the applicable local and national codes.
- Wiring shown are general points-of-connection guides only and are not intended for or to include all details for a specific installation.
- Be sure to install the switch and the fuse to the power line of each equipement.
- 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 UNIT1 must be larger than UNIT2 when the power source is connected in series between the units.
 11. If there exists the possibility of reversed phase, lose phase, momentary blackout or the power goes on and off while the product is operating, attach a reversed phase protection circuit locally. Running the product in reversed phase may break the compressor and other parts
- 12. Must install earth leakage circuit breaker.

10 External connection diagrams

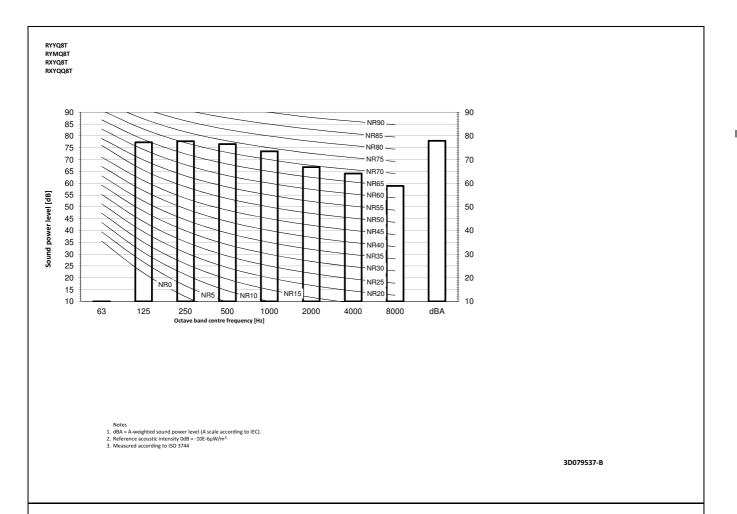
10 - 1 External Connection Diagrams

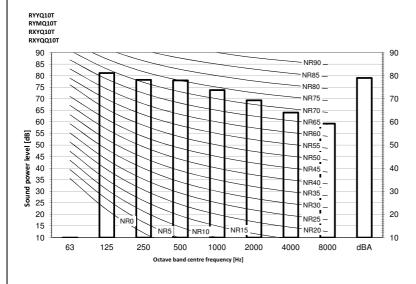


NOTES

- 1. All wiring, components and materials to be produced on the site must comply with the applicable local and national codes.
- Use copper conductors only.
- 3. As for details, see wiring diagram.
- I. 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. Be sure to install the switch and the fuse to the power line of each equipement.
- 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 UNIT1 must be larger than UNIT2 when the power source is connected in series between the units.
- 11. If there exists the possibility of reversed phase, lose phase, momentary blackout or the power goes on and off while the product is operating, attach a reversed phase protection circuit locally. Running the product in reversed phase may break the compressor and other parts.
- Must install earth leakage circuit breaker.

11 - 1 Sound Power Spectrum

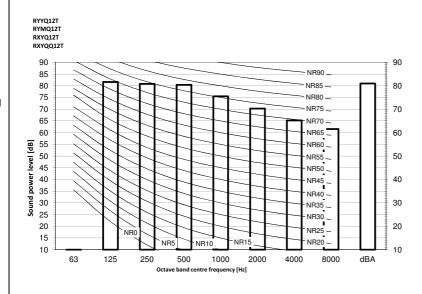




- Notes $1.~dBA=A-weighted sound power level (A scale according to IEC). \\ 2.~Reference acoustic intensity OdB=-10E-6<math>\mu$ W/m². \\ 3.~Measured according to ISO 3744

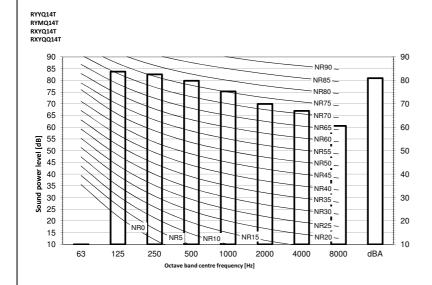
3D079908-B

11 - 1 Sound Power Spectrum



Notes $1.\ dBA=A\text{-weighted sound power level (A scale according to IEC)}.$ 2. Reference acoustic intensity $0dB=10E\text{-}6\mu\text{W/m}^{2}.$ 3. Measured according to ISO 3744

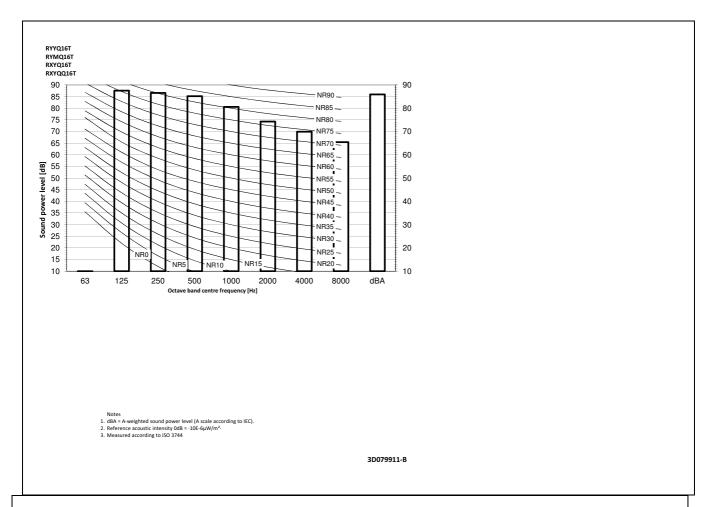
3D079909-B

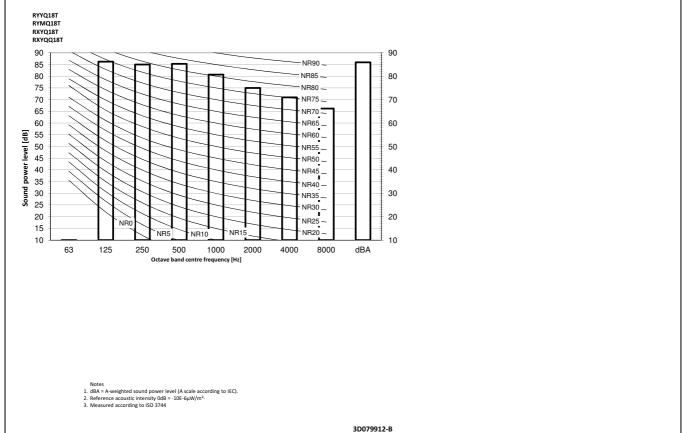


Notes $1.~dBa=A-weighted sound power level (A scale according to IEC). \\ 2.~Reference acoustic intensity OdB=-10E-6<math>\mu$ W/m². 3.~Measured according to ISO 3744

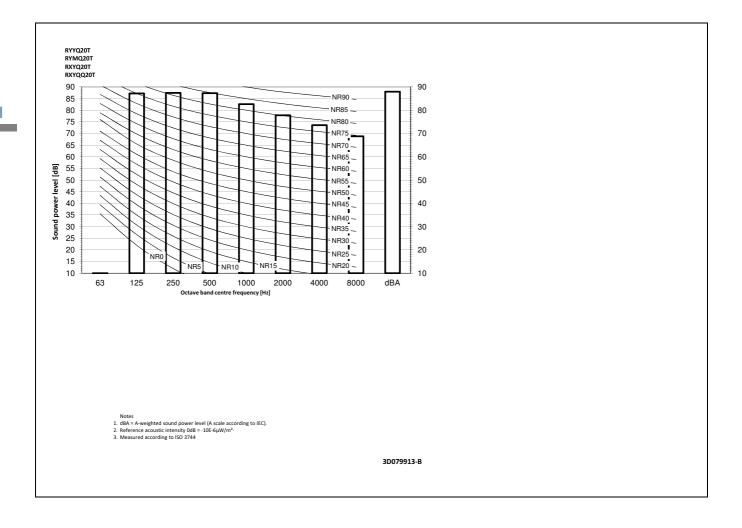
3D079910-B

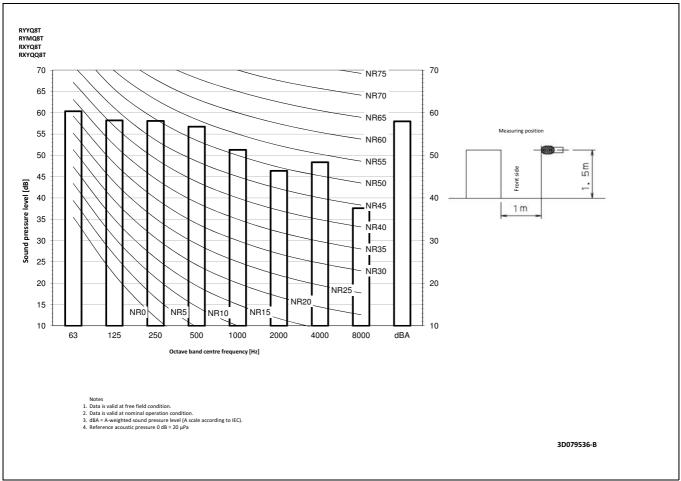
11 - 1 Sound Power Spectrum

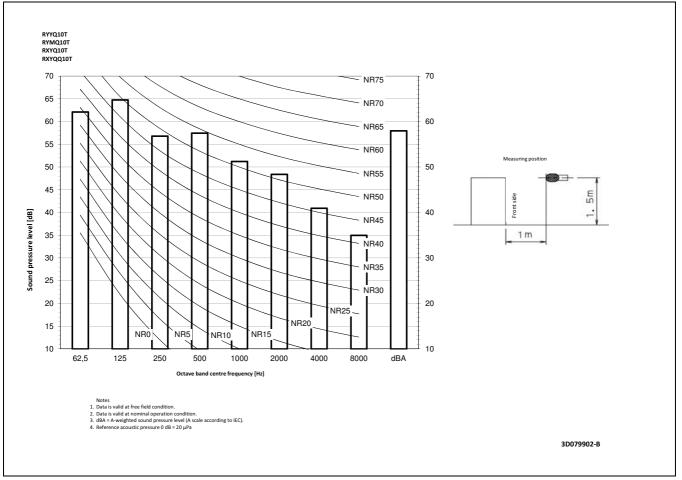


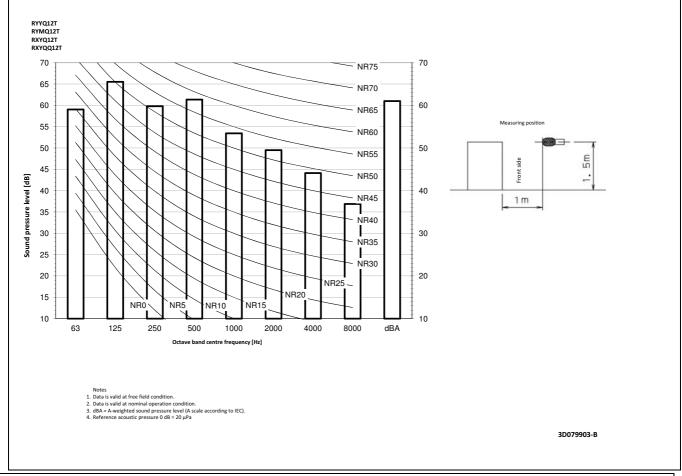


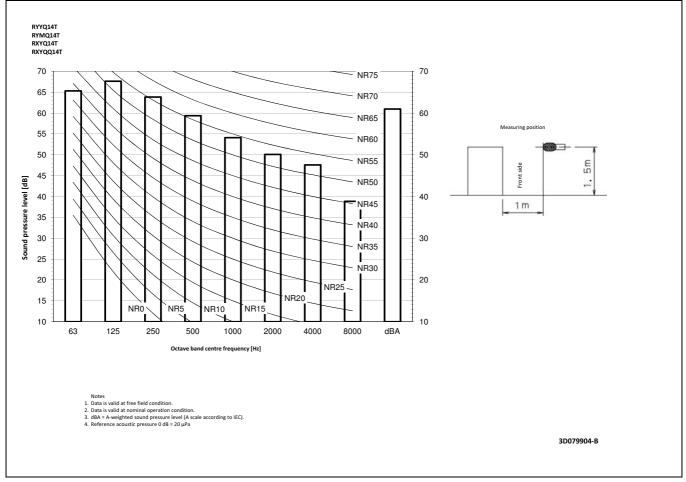
11 - 1 Sound Power Spectrum

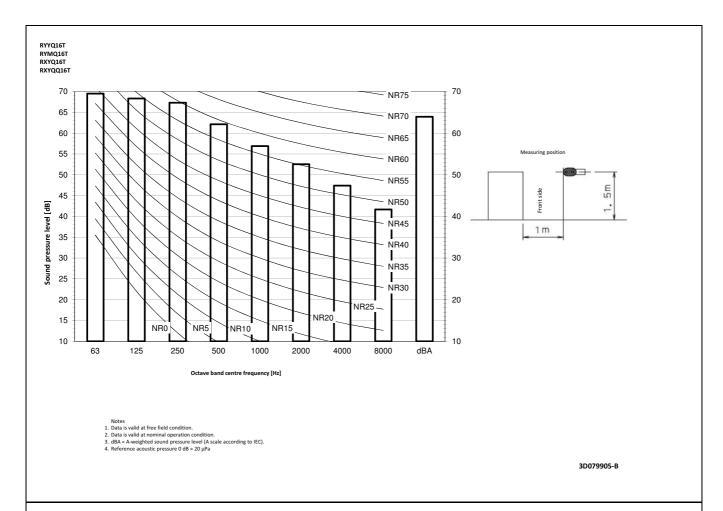


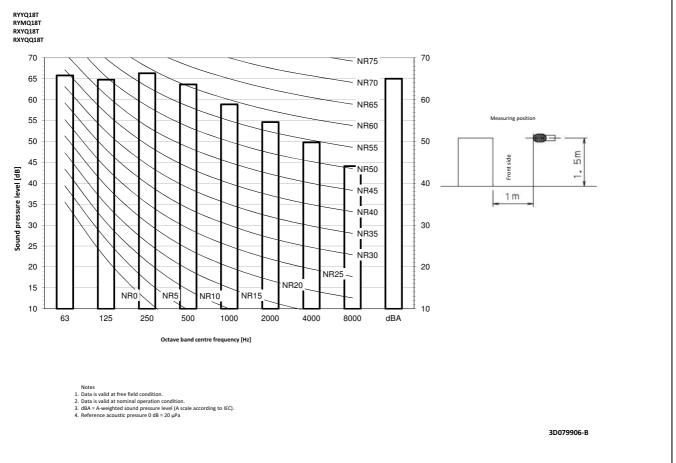


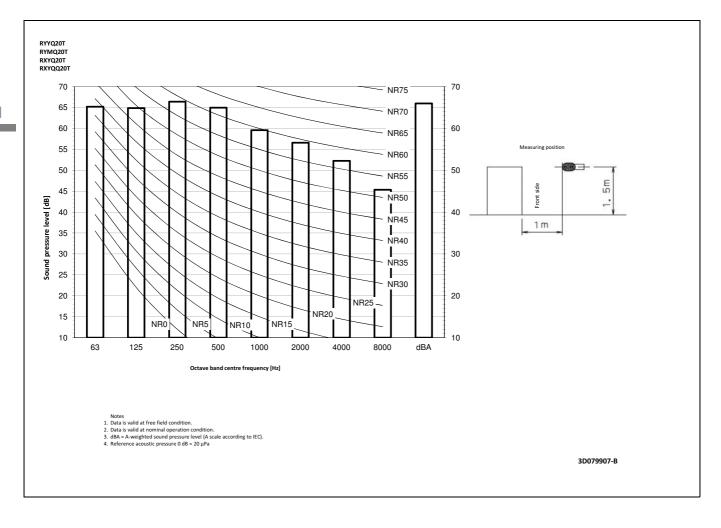






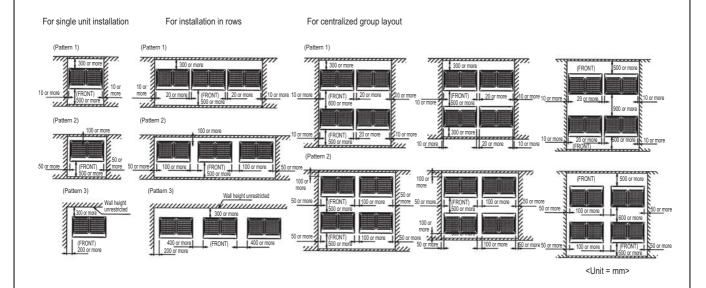


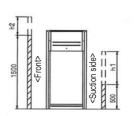




12 - 1 Installation Method

RYYQ-T RYMQ-T RXYQ-T RXYQQ-T





NOTES

1. Heights of walls in case of patterns 1 and 2:

Front: 1500mm

Suction side: 500mm

Side: Height unrestricted

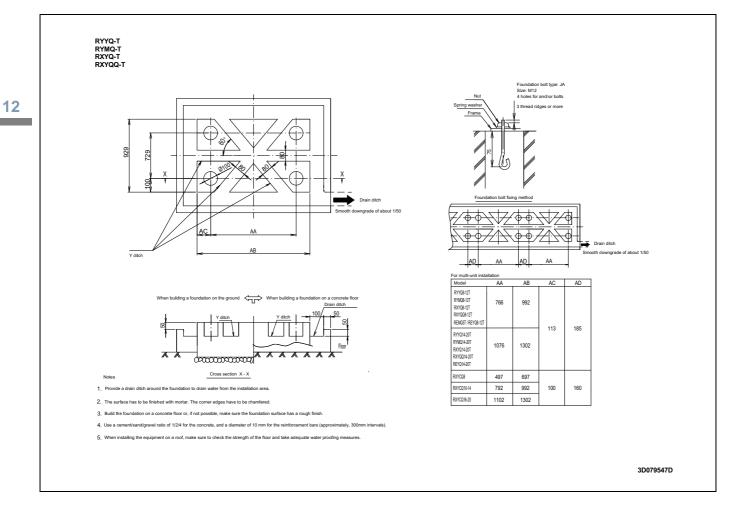
Installation space as shown on this drawing is based on the cooling operation at 35 degrees outdoor air temperature.

When the design outdoor air temperature exceeds 35 degrees or the load exceeds maximum ability of much generation load of heat in all outdoor unit, take the suction side space more broadly than the space as shown on this drawing.

- 2. If the above wall heights are exceeded then h2/2 and h1/2 should be added to the front and suction side service spaces respectively as shown in the figure on the right.
- 3. When installing the units most appropriate pattern should be selected from those shown above in order to obtain the best fit in the space available. Always keep in mind the need to leave enough space for a person to pass between units and wall and also for the air to circulate freely. (If more units are to be installed than are catered for in the above patterns your layout should take account of the possibility of short circuits).
- 4. The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.

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12 - 2 Fixation and Foundation of Units



12 - 3 Refrigerant Pipe Selection

RXYQQ-T

VRV4-Q Heat Pump Field Piping Restrictions (1/3)

Reference drawing see Page 2/3			Maximum piping length		N	aximum height difference	e	
rage 2/3		Longest pipe	After first branch	After first branch for	Indoor to outdoor	Indoor to indoor	Outdoor to	
		(A+[B,J])	(B,J)	outdoor multi	(H1)	(H2)	outdoor	Total Piping Length
				(D)	outdoor above indoor /		(H3)	Piping Length
		Actual / (Equivalent)	Actual	Actual / (Equivalent)	(indoor above outdoor)			
Standard								
Only VRV DX indoor or	onnected	120/(150)m	FXYS*K*	10/(13)m	50/(40)m	15m	5m	300m
Standard multi combina	ation							
AHU connection	Pair	50/(55)m ⁽²⁾	-	-	40/(40)m	-	-	-

NOTES

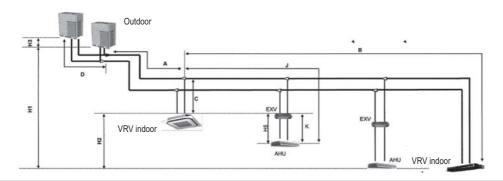
For standard multi combinations; see 3D079534

- (1) Extension is possible if all below conditions are met (limitation can be extended up to 90m)
 - a. The piping length between all indoor to the nearest branch kit is $\leq 40 \text{m}.$
 - b. It is necessary to increase the pipe size of the gas and liquid piping if the pipe length between the first and the final branch kit is over 40m 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
- c. When the piping size is increased (b), the piping length has to be counted as double. The total piping length has to be within limitations (see table above).
 d. The piping length difference between the nearest indoor from first branch to the outdoor unit and farthest indoor to the outdoor unit is ≤ 40m
 (2) The allowable minimum length is 5 m.

3D084965(1/3)

RXYQQ-T

VRV4-Q Heat Pump Field Piping Restrictions (2/3)



NOTES

- 1. Schematic indication: illustrations may vary from real unit outlook.
- 2. Displayed system is only to illustrate piping length limitations! Combination of displayed indoor unit types is not allowed. See 3D084966 for allowed combinations.

		Allowable piping length	Max. height difference
		EXV to AHU (K)	EXV to AHU (H5)
AHU connection	Pair	≤5m	5m

3D084965(2/3)

12 - 3 Refrigerant Pipe Selection

RXYQQ-T

VRV4-Q Heat Pump Field Piping Restrictions (3/3)

System pattern	Total		Allowable capacity		
Allowed connection ratio (CR)	capacity	Indoor unit quantity (VRV, RA, AHU, Hydrobox)	VRV DX indoor	AHU	
* Other combinations are N.A.		(excl. BP box and EXV kits)			
Only VRV DX indoor	50~130%	Max. 64	50~130%	-	
Only AHU (pair AHU) ⁽³⁾	90~110%	1	-	90~110%	

NOTES

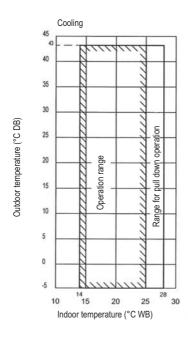
- 1. When using AHU connection: see EKEXV kit as an indoor unit for counting the total number of indoor units
- Restrictions by air handling unit capacity
 Pair AHU = system with 1 AHU connected to one outdoor unit

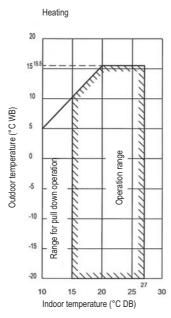
3D084965(3/3)

13 Operation range

13 - 1 Operation Range

RYYQ-T RYMQ-T RXYQ-T RXYQQ-T





NOTES

These figures assume the following operation conditions:
 Indoor and outdoor units:

Equivalent pipe length: 5m Level difference: 0m

- 2. Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).
- 3. To reduce the freeze-up operation (indoor de-icing) frequency it is recommended to install the outdoor unit in a location not exposed to wind.
- 4. Operation range is valid in case direct expansion indoor units are used. In case special indoor units are used, (eg. Hydrobox), refer to technical specs of dedicaded unit.

3D079544







These products are not within the scope of the Eurovent certification program

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