

VRV IV+ heat pump, with continuous heating Air Conditioning Technical Data RYYQ-U



RYYQ8U7Y1B RYYQ10U7Y1B RYYQ12U7Y1B RYYQ14U7Y1B RYYQ16U7Y1B RYYQ18U7Y1B RYYQ20U7Y1B RYYQ22U7Y1B RYYQ24U7Y1B RYYQ26U7Y1B RYYQ28U7Y1B RYYQ30U7Y1B RYYQ32U7Y1B RYYQ34U7Y1B RYYQ36U7Y1B RYYQ38U7Y1B RYYQ40U7Y1B RYYQ42U7Y1B RYYQ44U7Y1B RYYQ46U7Y1B RYYQ48U7Y1B RYYQ50U7Y1B RYYQ52U7Y1B RYYQ54U7Y1B RYMQ8U7Y1B RYMQ10U7Y1B RYMQ12U7Y1B RYMQ14U7Y1B RYMQ16U7Y1B RYMQ18U7Y1B RYMQ20U7Y1B

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1 Features 1 - 1 RYYQ-U

Daikin's optimum solution with top comfort

- By choosing this product with LOOP by Daikin you support the reuse of refrigerant
- Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains
- > Wide range of indoor units: possibility to combine VRV with stylish indoor units (Daikin Emura, Perfera)
- Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, continuous heating, VRV configurator, 7 segment display and full inverter compressors, 4-side heat exchanger, refrigerant cooled PCB, new DC fan motor
- 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
- Continuous comfort: Unique continuous heating technology makes VRV IV the best alternative to traditional heating systems
- > Free combination of outdoor units to meet installation space or efficiency requirements



- > Fits any building as also indoor installation is possible as a result of high external static pressure of up to 78.4 Pa. Indoor installation leads to less piping length, lower installation costs, increased efficiency and better visual aesthetics
- Simplified installation & guaranteed optimal efficiency with automatic charging & testing
- > Easy compliance with F-gas regulation thanks to automated refrigerant containment check
- > Wide piping flexibility: 30m indoor height difference, maximum piping length: 190m, total piping length: 1,000m
- > The ability to control each conditioned zone individually keeps VRV system running costs to an absolute minimum
- > Spread your installation cost by phased installation
- Keep your system in top condition via the Daikin Cloud Service: 24/7 monitoring for maximum efficiency, extented lifetime and immediate service support thanks to failure prediction
- > Available as heating only by irreversible field setting

2 - 1 Specifications

Technical Sp		ns		RYYQ8U	-	-	RYYQ14U		RYYQ18U	
Recommended co	ombination			4 x FXFQ50AVEB	4 x FXFQ63AVEB	6 x FXFQ50AVEB	+ 5 x	4 x FXFQ63AVEB + 2 x	+ 5 x	+ 6 x
Recommended co	ombination	2		4 x FXSQ50A2VEB	4 x FXSQ63A2VEB	6 x FXSQ50A2VEB	-	4 x FXSQ63A2VEB + 2 x	FXFQ63AVEB 3xFXSQ50A2VEB+5x	2 x FXSQ50A2VEB + 6
Recommended co	ombination	3		4 x FXMQ50P7VEB	4 x FXMQ63P7VEB	6 x FXMQ50P7VEB	FXSQ63A2VEB 1x FXMQ50P7VEB + 5 x FXMQ63P7VEB	FXSQ80A2VEB 4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	FXSQ63A2VEB 3 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	FXSQ63A2VEB 2 x FXMQ50P7VEB + 6 FXMQ63P7VEB
Continuous heatir	na						Yes	T AMQOUT YED	T XINQUST / YED	T AMQUUT / YED
Cooling capacity	Prated,c		kW	22.4 (1)	28.0 (1)	33.5 (1)	40.0 (1)	45.0 (1)	50.4 (1)	52.0 (1)
Heating capacity	Nom.	6°CWB	kW	22.4 (2)	28.0 (2)	33.5 (2)	40.0 (2)	45.0 (2)	50.4 (2)	56.0 (2)
	Prated,h		kW	22.4 (2)	28.0 (2)	33.5 (2)	40.0 (2)	45.0 (2)	50.4 (2)	56.0 (2)
	Max.	6°CWB	kW	25.0 (2)	31.5 (2)	37.5 (2)	45.0 (2)	50.0 (2)	56.5 (2)	63.0 (2)
Power input - 50H		Nom. 6°CWB	kW	5.40 (2)	7.58 (2)	9.65 (2)	10.69 (2)	12.54 (2)	14.22 (2)	17.47 (2)
COP at nom. capacity	6°CWB		kW/kW	4.15 (2)	3.69 (2)	3.47 (2)	3.74 (2)	3.59 (2)	3.54 (2)	3.20 (2)
ESEER - Automatic	2			7.53	7.20	6.96	6.83	6.50	6.38	5.67
ESEER - Standard				6.37	5.67	5.50	5.31	5.05	4.97	4.42
SCOP	1.1. 1.1	1			.3	4.1		.0	4.2	4.0
SCOP recommend				4.2	4.3	4.1	4.0	4.1	4.2	4.0
SCOP recommend	ted combina	ition 3		4.2		1.1		.0	4.1	3.9
SEER	a al a a se le tr			7.6	6.8		.3		.0	5.9
SEER recommend				6.9	6.8	5.9	6.3	5.9	6.0	5.9
SEER recommend	ed combina	uon 3	%	7.5	6.8 267.6	247.8	.2 250.7	5.8 236.5	6.0 238.3	5.9 233.7
ηs,c	d combinat		%		267.6	233.5	250.7			233.7
ηs,c recommende				273.6 295.2	270.5	235.5	230.0	234.2 230.4	236.8 238.2	233.9
ηs,c recommende ηs,h	u compinat	011.5	%	167.9	168.2	161.4	155.4	157.8	163.1	156.6
ηs,h recommende	ad combinat	ion 2	70	165.4	170.6	161.3	155.4	157.5	164.8	158.2
ηs,h recommende				165.6	1/0.0	160.6	157.2	159.5	159.6	153.4
Space cooling	A Condi-			3.0	2.3	2.4	2.6	2.1	1,59.0	
space coomig	tion (35°C - 27/19)		kW	22.4	28.0	33.5	40.0	45.0	50.4	52.0
	B Condi-	EERd		5.2	4.7	4.3	4.1	3.9	3.8	3.7
	tion (30°C - 27/19)		kW	16.5	20.6	24.7	29.5	33.2	37.1	38.3
	C Condi-	EERd		9.5	8.3	7.7	7.8	7.7	7.5	7.3
	tion (25°C - 27/19)	Pdc	kW	10.6	13.3	15.9	18.9	21.3	23.9	24.6
	D Condi-	EERd		18.8	17.0	13.9	14.3	14.2	18	3.3
	tion (20°C - 27/19)	Pdc	kW	8.0	9.3	9.4	8.4	9.5	11	.5
Space cooling	A Condi-	EERd		2.6	2	.4	2.6	2.1	1.	.9
recommended combination 2	tion (35°C - 27/19)	Pdc	kW	22.4	28.0	33.5	40.0	45.0	50.4	52.0
	B Condi-	EERd		4.9	4.7	4.0	4.1	3.8	3.7	3.6
	tion (30°C - 27/19)	Pdc	kW	16.5	20.6	24.7	29.5	33.2	37.1	38.3
Space cooling	C Condi-			8.8	8.5	7.1	7.9	7.6	7.5	7.3
recommended combination 2	tion (25°C - 27/19)	Pdc	kW	10.6	13.3	15.9	18.9	21.3	23.9	24.6
	D Condi-	EERd		15.1	17.2	13.1	14	.0	18.1	18.9
	tion (20°C - 27/19)	Pdc	kW	8.8	9.3	9.1	8.4	9.5	11.4	10.9
Space cooling	A Condi-	EERd		3.0	2.3	2.4	2.6	2.1	1.	.9
recommended combination 3	tion (35°C - 27/19)	Pdc	kW	22.4	28.0	33.5	40.0	45.0	50.4	52.0
	B Condi-	EERd		5.1	4.7	4.2	4.0	3	.7	3.6
	tion (30°C - 27/19)	Pdc	kW	16.5	20.6	24.7	29.5	33.2	37.1	38.3
	C Condi-	EERd		9.6	8.4	7	.7	7.4	7.6	7.3
	tion (25°C - 27/19)	Pdc	kW	10.6	13.3	15.9	19.0	21.3	23.9	24.6
	D Condi-			16.0	16.9	13.7	14.0	14.1	18	3.3
	tion (20°C - 27/19)	Pdc	kW	9.1	9.3	9.4	8.4	9.5	11	.6

Technical Spe				YQ8U	RYYQ10U	RYYQ12U	RYYQ14U	RYYQ16U		-
Space heating	TBivalent	COPd (declared COP)		2.5	2.4	2.0	2.3	2.2	1.9	1.8
(Average climate)		Pdh (declared heating cap)	kW	13.7	16.0	18.4	20.6	23.2	27.9	31.0
		Tbiv (bivalent temperature)	°C				-10			
	TOL	COPd (declared COP)		2.5	2.4	2.0	2.3	2.2	1.9	1.8
		Pdh (declared heating cap)	kW	13.7	16.0	18.4	20.6	23.2	27.9	31.0
		Tol (temperature operating	°C				-10			
		limit)								
	A Con-	COPd (declared COP)		2.7	2.6	2.4	2	.6	2.4	2.1
	dition	Pdh (declared heating cap)	kW	12.1	14.2	16.3	18.2	20.5	24.7	27.4
	(-7°C)									
	B Condi-	COPd (declared COP)			3.9		3	.5	3.7	3.6
	tion (2°C)	Pdh (declared heating cap)	kW	7.4	8.6	9.9	11.1	12.5	15.0	16.7
	C Condi-	COPd (declared COP)		6.3	6.4	6	5.1	6.3	6.7	6.5
	tion (7°C)	Pdh (declared heating cap)	kW	5.0	5.5	6.4	7.1	8.0	9.7	10.7
	D Con-	COPd (declared COP)		7.9	8.2	7.9	8.5	8.6	9.0	9.1
	dition	Pdh (declared heating cap)	kW	5	.9	6.3	4	.9	7	.1
	(12°C)									
Space heating	A Con-	COPd (declared COP)		2	.7	2.4	2	.6	2.4	2.2
Average climate)	dition	Pdh (declared heating cap)	kW	12.1	14.2	16.3	18.2	20.5	24.7	27.4
ecommended	(-7°C)									
combination 2	B Condi-	COPd (declared COP)		3.9	4.0	3.9	3	.5	3.8	3.7
				7.4	8.6	9.9	11.1	12.2	15.0	16.7
		COPd (declared COP)		6.3	6.5		5.1	6.3	6.8	6.5
				5.0	5.5	6.4	7.1	8.0	9.7	10.7
	D Con-	COPd (declared COP)		7.8	8.3	7.9	8.6	8.7	9.1	9.2
	dition			5.9	6.0	6.4	4.9	5.0		.2
	(12°C)	· an (acciarca ricating cap)		2.2	0.0	0.7		5.0	/	-
		COPd (declared COP)		2	.4	1.9	2.3	2.2	1.9	1.8
	TDIVAIENT		kW	13.7	16.0	18.4	20.6	23.2	27.9	31.0
			°C	13.7	10.0	10.4	-10	23.2	21.9	51.0
Space heating	TOL	COPd (declared COP)	C		.4	10	1	2.2	10	1.0
	TOL		L/A/	 13.7	1	1.9	2.3	2.2 23.2	1.9 27.9	1.8 31.0
Average climate) ecommended				13./	16.0	18.4	20.6	23.2	27.9	31.0
			°C				-10			
combination 2		limit)								
Space heating	A Con-	COPd (declared COP)		2.7	2.6	2.4		.6	2.4	2.1
Average climate)	dition	Pdh (declared heating cap)	kW	12.1	14.2	16.3	18.2	20.5	24.7	27.4
recommended	(-7°C)									
combination 3	B Condi-	COPd (declared COP)		3.9	3.7	3.9		.5	3.7	3.6
				7.4	8.6	9.9	11.1	12.5	15.0	16.7
		COPd (declared COP)		6.2	6.4	6.0	6.1	6.2	6.5	6.3
				4.9	5.5	6.4	7.1	8.0	9.7	10.7
	D Con-	COPd (declared COP)		7.8	8.1	7.8	8.5	8.6		.7
	dition	Pdh (declared heating cap)	kW	5.8	5.9	6.2	4	.9	6	.9
	(12°C)							1		1
	TBivalent	COPd (declared COP)		2.5	2.4	2.0	2.3	2.2	1.9	1.8
				13.7	16.0	18.4	20.6	23.2	27.9	31.0
		Tbiv (bivalent temperature)	°C				-10			
	TOL	COPd (declared COP)		2.5	2.4	2.0	2.3	2.2	1.9	1.8
		Pdh (declared heating cap)	kW	13.7	16.0	18.4	20.6	23.2	27.9	31.0
		Tol (temperature operating	°C				-10			
		limit)								
Capacity range			HP	8	10	12	14	16	18	20
PED	Category						Category II			
	Most	Name					Accumulator			
	critical		Bar*l		325			15	4	93
	part									
Maximum number	· ·	able indoor units					64 (3)			
Indoor index	Min.		1	00.0	125.0	150.0	175.0	200.0	225.0	250.0
connection	Max.			60.0	325.0	390.0	455.0	520.0	585.0	650.0
Dimensions	Unit	Height	mm		525.0	520.0	1,685	520.0	505.0	000.0
	0.m		mm		930		1,005	1 7	240	
			mm		930		765	1,2	170	
	Packed						1,820			
	Packed unit		mm		995		1,020		205	
	unit		mm		כעע		060	1,3	305	
N/-:	11	•	mm		252		860	10	-	70
Weight	Unit		kg		252			19		78
	Packed ur	nit	kg		265			35	3	95
Packing	Material						Carton			
	Weight		kg		1.8			2	.2	
Packing 2	Material						Wood			
			kg		11.0			14	1.0	
	Weight		ĸġ		1110					
Packing 3	Weight Material		kg				Plastic			

Specifications 2

2 - 1 Specifications

Technical Spe		ns			KTTQ8U	KT TQ10U	KT TQ120	RYYQ14U	RTTQ16U	KT TQ18U	KT YQ20			
Casing	Colour							Daikin White						
	Material						Painteo	l galvanized ste	el plate					
Heat exchanger	Туре							Cross fin coil						
	Indoor sic	le						Air						
	Outdoors	ide						Air						
	Air flow	Cooling	Rated	m³/h	9,720	10,500	11,100	13,380	15,600	15,060	15,660			
	rate	Heating	Rated	m³/h	9,720	10,500	11,100	13,380	15,600	15,060	15,660			
Fan	Quantity					1				2				
	External static	Max.		Ра				78						
	pressure							1						
Fan motor	Quantity					1				2				
	Туре							DC motor						
	Output			W		550				50				
Compressor	Quantity					1				2				
	Туре						Hermetical	ly sealed scroll	compressor					
	Crankcase	e heater		W				33						
Operation range	Cooling	Min.		°CDB				-5.0						
		Max.		°CDB				43.0						
	Heating	Min.		°CWB				-20.0						
	-	Max.		°CWB				15.5						
Sound power level	Cooling	Nom.		dBA	78.0 (4)	79.1 (4)	83.4 (4)	80.9 (4)	85.6 (4)	83.8 (4)	87.9 (4)			
-	Heating	Prated,h		dBA	79.6 (4)	80.9 (4)	83.5 (4)	83.1 (4)	86.5 (4)	85.3 (4)	89.8 (4)			
Sound pressure	Cooling	Nom.		dBA	57.0	0 (5)	61.0 (5)	60.0 (5)	63.0 (5)	62.0 (5)	65.0 (5)			
level														
Refrigerant	Туре				R-410A									
5	GWP							2,087.5						
	Charge			TCO2Eq	12.3	12.5	13.2	21.5	21.7	24.4	24.6			
	Charge			kg	5.9	6.0	6.3	10.3	10.4	11.7	11.8			
Refrigerant oil	Type				515	0.0								
Piping connections		Туре				Synthetic (ether) oil FVC68D Braze connection								
riping connections	Liquiu	OD		mm	0	9.52 12.7 15.								
	Gas	0			9.52 IZ./ IS.9 Braze connection									
	Gas	Type OD			19.1	22.2		staze connectio	28.6					
	Total		Actual	mm	19.1	22.2		1000 (6)	20.0					
	piping length	System	Actual	m				1,000 (6)						
Defrost method								Reversed cycle						
Capacity control	Method							verter controlle						
Indication if the hea	ater is equi	pped with	a supplementa	rv heater				no						
Supplementary heater	Back-up capacity	Heating	elbu	kW				0.0						
Power consump-	Crank-	Cooling	PCK	kW				0.000						
tion in other than active mode	case heater mode	Heating	РСК	kW		0.052		0.0)77	0.0)89			
	Off mode	Cooling	POFF	kW		0.041		0.0)74	0.0)75			
	Shinode	Heating	POFF	kW		0.041)77)89			
	Standby	_	POFF	kW		0.032)74)75			
	mode	Heating	PSB	kW)89			
	Thermo-	5	РЪВ	kW	0.052 0.077 0.005 0.010						707			
										1	100			
		Heating	РТО	kW	0.056 0.097 0.098									
C l'	mode		(:)					0.25						
Cooling	Cdc (Degi		<u>J</u> ,		0.25									
Heating	Cdh (Deg		eating)					0.25						
Safety devices	Item	01						gh pressure swi						
		02			Fan driver overload protector									
		03			Inverter overload protector									
		04			PC board fuse									
		05					Leak	age current det	ector					

Standard accessories: Installation manual;Quantity: 1;

Standard accessories: Operation manual;Quantity: 1;

Standard accessories: Connection pipes;Quantity: 1;

Electrical Sp	ecifications		RYYQ8U	RYYQ10U RYYQ12U RYYQ14U RYYQ16U RYYQ18U RYYQ20U
Power supply	Name			Y1
	Phase			3N~
	Frequency	Hz		50
	Voltage	V		380-415
Power supply int	ake			Both indoor and outdoor unit
Voltage range	Min.	%		-10
	Max.	%		10





2 - 1 Specifications

Electrical Sp	ecificatio	ons		RYYQ8U	RYYQ10U	RYYQ12U	RYYQ14U	RYYQ16U	RYYQ18U	RYYQ20L
Current	Nominal running current (RLA)	Cooling	A	7.2 (7)	10.2 (7)	12.7 (7)	15.4 (7)	18.0 (7)	20.8 (7)	26.9 (7)
Current - 50Hz	Nominal running current (RLA)	Combina- Cooling tion A Combina- Cooling tion B			·		-	·	·	•
	Starting o	current (MSC) - remark					See note 8			
	Zmax	List				1	No requirement	ts		
	Minimum	n Ssc value	kVa	4,050 (8)	5,535 (8)	6,038 (8)	6,793 (8)	7,547 (8)	8,805 (8)	9,812 (8)
	Minimum	n circuit amps (MCA)	Α	16.1 (9)	22.0 (9)	24.0 (9)	27.0 (9)	31.0 (9)	35.0 (9)	39.0 (9)
	Maximun	n fuse amps (MFA)	А	20 (10)	25 (10)	32	(10)	40	(10)	50 (10)
	Full load amps (FLA)	Total	A	1.2 (11)	1.3 (11)	1.5 (11)	1.8 (11)		2.6 (11)	
Power Perfor-	Power	Combina- 35°C ISO - Full I	oad				-			
mance	factor	tion B 46°C ISO - Full I	load				-			
Wiring connec- tions - 50Hz	For power supply	Quantity					5G			
	For	Quantity					2			
	connec- tion with indoor	Remark					F1,F2			

(1)Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m | (2)Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m |

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

(5)Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings. | (6)Refer to refrigerant pipe selection or installation manual |

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

(8)In accordance with 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 Ssc > minimum Ssc value | (9)MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current. |

(10)MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). | (11)FLA means the nominal running current of the fan |

MSC means the maximum current during start up of the compressor. This unit uses only inverter compressors. Starting current is always < max. running current. | Maximum allowable voltage range variation between phases is 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.

The AUTOMATIC ESEER value corresponds with normal VRV4 Heat Pump operation, taking into account advanced energy saving operation functionality (variable refrigerant temperature) | The STANDARD ESEER value corresponds with normal VRV4 Heat Pump operation, not taking into account advanced energy saving operation functionality |

Sound values are measured in a semi-anechoic room. | 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 |

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 |

Sc: Short-circuit power | For detailed contents of standard accessories, see installation/operation manual |

Multi combination (22~54HP) data is corresponding with the standard multi combination

Technical spe	cificatio	ns Syst	em		RYYQ22U	RYYQ24U	RYYQ26U	RYYQ28U	RYYQ30U	RYYQ32U	RYYQ34U	RYYQ36U	RYYQ38U	RYYQ40U
System	Outdoor	unit modu	ile 1		RYMQ10U	RYMQ8U		RYMQ12U			RYMQ16U		RYMQ8U	RYMQ10U
	Outdoor	unit modu	le 2		RYMQ12U	RYMQ16U	RYMQ14U	RYMQ16U	RYMQ18U	RYMQ16U	RYMQ18U	RYMQ20U	RYMQ10U	RYMQ12U
	Outdoor	unit modu	ile 3						-				RYMQ20U	RYMQ18U
Recommended cor	nbination				6 x FXFQ50AVEB	4 x FXFQ50AVEB	7 x FXFQ50AVEB	6 x FXFQ50AVEB	9 x	8 x FXFQ63AVEB	3 x FXFQ50AVEB	2 x FXFQ50AVEB	6 x FXFQ50AVEB	9 x FXFQ50AVEB
					+ 4 x	+ 4 x	+ 5 x	+ 4 x	FXFQ50AVEB +	+ 4 x	+ 9 x	+ 10 x	+ 10 x	+ 9 x
					FXFQ63AVEB	FXFQ63AVEB +	FXFQ63AVEB	FXFQ63AVEB+	5 x FXFQ63AVEB	FXFQ80AVEB	FXFQ63AVEB +	FXFQ63AVEB+	FXFQ63AVEB	FXFQ63AVEB
						2 x FXFQ80AVEB		2 x FXFQ80AVEB			2 x FXFQ80AVEB	2 x FXFQ80AVEB		
Recommended cor	nbination	2			бх	4 x	7 x	бх	9 x	8 x	3х	2 x	бx	9 x
					FXSQ50A2VEB	FXSQ50A2VEB	FXSQ50A2VEB	FXSQ50A2VEB	FXSQ50A2VEB	FXSQ63A2VEB	FXSQ50A2VEB	FXSQ50A2VEB	FXSQ50A2VEB	FXSQ50A2VEB
					+ 4 x	+ 4 x	+ 5 x	+ 4 x	+ 5 x	+ 4 x	+ 9 x	+ 10 x	+ 10 x	+ 9 x
					FXSQ63A2VEB	FXSQ63A2VEB	FXSQ63A2VEB	FXSQ63A2VEB	FXSQ63A2VEB	FXSQ80A2VEB	FXSQ63A2VEB	FXSQ63A2VEB	FXSQ63A2VEB	FXSQ63A2VEB
						+ 2 x		+ 2 x			+ 2 x	+2 x		
						FXSQ80A2VEB		FXSQ80A2VEB			FXSQ80A2VEB	FXSQ80A2VEB		
Recommended cor	nbination	3			бх	4 x	7 x	6 X	9 x	8 x	3 x	2 x	6х	9 x
					FXMQ50P7VEB	FXMQ50P7VEB	FXMQ50P7VEB	FXMQ50P7VEB	FXMQ50P7VEB	FXMQ63P7VEB	FXMQ50P7VEB	FXMQ50P7VEB	FXMQ50P7VEB	FXMQ50P7VEB
					+ 4 x	+ 4 x	+ 5 x	+ 4 x	+ 5 x	+ 4 x	+ 9 x	+ 10 x	+ 10 x	+ 9 x
					FXMQ63P7VEB	FXMQ63P7VEB	FXMQ63P7VEB	FXMQ63P7VEB	FXMQ63P7VEB	FXMQ80P7VEB	FXMQ63P7VEB	FXMQ63P7VEB	FXMQ63P7VEB	FXMQ63P7VEB
						+2 x		+ 2 x			+ 2 x	+2 x		
						FXMQ80P7VEB		FXMQ80P7VEB			FXMQ80P7VEB	FXMQ80P7VEB		
Continuous heating	g								Y	es				
Cooling capacity	Prated,c			kW	61.5 (1)	67.4 (1)	73.5 (1)	78.5 (1)	83.9 (1)	90.0 (1)	95.4 (1)	97.0 (1)	102.4 (1)	111.9 (1)
Heating capacity	Nom.	6°CWB		kW	61.5 (2)	67.4 (2)	73.5 (2)	78.5 (2)	83.9 (2)	90.0 (2)	95.4 (2)	101.0 (2)	106.4 (2)	111.9 (2)
	Prated,h			kW	61.5 (2)	67.4 (2)	73.5 (2)	78.5 (2)	83.9 (2)	90.0 (2)	95.4 (2)	101.0 (2)	106.4 (2)	111.9 (2)
	Max.	6°CWB		kW	69.0 (2)	75.0 (2)	82.5 (2)	87.5 (2)	94.0 (2)	100.0 (2)	106.5 (2)	113.0 (2)	119.5 (2)	125.5 (2)
Power input - 50Hz	Heating	Nom.	6°CWB	kW	17.23 (2)	17.94 (2)	20.33 (2)	22.19 (2)	23.87 (2)	25.08 (2)	26.76 (2)	30.02 (2)	30.45 (2)	31.45 (2)
COP at nom. capacity	6°CWB			kW/kW	3.57 (2)	3.76 (2)	3.61 (2)	3.54 (2)	3.51 (2)	3.59 (2)	3.56 (2)	3.36 (2)	3.49 (2)	3.56 (2)
ESEER - Automatic					7.07	6.81	6.89	6.69	6.60	6.50	6.44	6.02	6.36	6.74



Technical spe	ecificatio	ns System		RYYQ22U	RYYQ24U	RYYQ26U	RYYQ28U	RYYQ30U	RYYQ32U	RYYQ34U	RYYQ36U	RYYQ38U	RYYQ40U
ESEER - Standard				5.58	5.42	5.39	5.23	5.17	5.05	5.01	4.68	5.03	5.29
SCOP				4.4	4.3		.2	4.3		.2	4.1		.3
SCOP recommend				4.4	4.3		.2	4.3	4.2	4.3	4.2	4.3	4.4
SCOP recommend	led combina	ation 3		4.3	6.0	4.2		4.3	4.1	4.2	4.1	4.2	4.3
SEER SEER recommend		ti 2		6.9	6.8	6.7	6	.5		.4	6.3	6.9	6.7
SEER recommend				6.7 6.9	6.6 6.7	6.5 6.6	6.4	6.5	6.3 6.2	6	.3	6.8 6.9	6.6 6.7
	eu compina	10115	%	274.5	269.9	264.2	257.8	256.8	251.7	253.3	250.8	272.4	263.5
ηs,c ηs,c recommende	d combinati	ion 2	70	266.5	262.6	256.1	249.3	249.8	248.3	250.9	248.7	269.2	259.2
ηs,c recommende				273.3	265.3	261.1	253.1	256.1	244.2	249.8	247.2	272.2	263.2
ηs,h			%	171.2	167.0	164.6	166.0	169.8	163.1	166.2	162.4	167.5	170.0
ηs,h recommende	d combinat	ion 2		172.3	167.1	165.4	166.8	170.6	164.6	167.7	164.1	168.4	171.3
ηs,h recommende				170.2	165.5	164.5	165.0	167.0	161.9	164.2	159.9	164.8	167.8
Space cooling	A Condi-	EERd		2.6	2.5	2.6	2.3	2.1	2.3	2	.1	2.4	2.2
	tion (35°C - 27/19)	Pdc	kW	61.5	67.4	73.5	78.5	83.9	90.0	95.4	97.0	102.4	111.9
	B Condi-	EERd		4.8	4	.6	4.4	4	.3	4.2	4.1	4	.5
	tion (30°C - 27/19)	Pdc	kW	45.3	49.7	54.2	57.8	61.8	66.3	70.3	71.5	75.5	82.5
	C Condi-	EERd		8.5	8.6	8.2	8.1	8.2	8	8.1	7.9	8.5	8.3
	tion (25°C - 27/19)	Pdc	kW	29.1	31.9	34.8	37.2	39.7	42.6	45.2	45.9	48.5	53.0
	D Condi-	EERd		16.0	15.2	14.2	14.3	16.8	14.3	16.8	16.7	17.9	16.0
	tion (20°C - 27/19)	Pdc	kW	18.8	15.8	16.2	16.5	21.0	19.0	20.1	20.4	21.6	23.6
Space cooling recommended combination 2	A Condi- tion (35°C - 27/19)			2.6	2.4	2.6	2.3	2.1	2.2	2	.1	2.3	2.2
Space cooling recommended combination 2	A Condi- tion (35°C - 27/19)		kW	61.5	67.4	73.5	78.5	83.9	90.0	95.4	97.0	102.4	111.9
	B Condi-	EERd		4.6	4.5	4.4	4.3		4.2		4.1	4.5	4.4
	tion (30°C - 27/19)	Pdc	kW	45.3	49.7	54.1	57.8	61.8	66.3	70.3	71.5	75.4	82.4
	C Condi-	EERd		8.2	8.4	7.9	7.8	7.9	8.0	8.1	7.9	8.4	8.1
	tion (25°C - 27/19)	Pdc	kW	29.1	31.9	34.8	37.2	39.7	42.6	45.2	45.9	48.5	53.0
	D Condi-	EERd		15.6	14.7	13.6	13.8	16.1	14.0	16	5.5	17.8	15.9
	tion (20°C - 27/19)	Pdc	kW	18.4	15.4	15.7	16.5	20.5	18.9	20.1	20.4	21.6	23.6
Space cooling	A Condi-				2.5		2.3	2.1	2.2	2	.1	2.4	2.2
recommended combination 3	tion (35°C - 27/19)	Pdc	kW	61.5	67.4	73.5	78.5	83.9	90.0	95.4	97.0	102.4	111.9
	B Condi-			4.8	4	.5	4	.3	4	.1	4.0	4.5	4.4
	tion (30°C - 27/19)	Pdc	kW	45.3	49.7	54.2	57.8	61.8	66.3	70.3	71.5	75.5	82.5
	C Condi-			8.5	8.4	8.1	8.0	8.2	7.8	8.0	7.8	8.5	8.4
	tion (25°C - 27/19)		kW	29.1	31.9	34.8	37.2	39.7	42.6	45.2	45.9	48.5	53.0
	D Condi-			15.8	15.2	14.0	14.1	16.6	13.8	16.6	16.5	17.9	16.1
	tion (20°C - 27/19)		kW	18.8	15.7	16.0	16.6	21.0	19.0	20.1	20.4	21.6	23.6
Space heating	TBivalent	COPd (declared COP)		2.3	2.5	2.3	2.2	2.1	2.4	2.2	2.1	2	
(Average climate)		Pdh (declared heating cap)	kW	34.4	36.9	39.0	41.6	46.3	46.4	51.1	54.2	60.7	62.3
	TO	Tbiv (bivalent temperature)	°C	~ ~		0.5		-1		0.5		-	2
	TOL	COPd (declared COP)	L\\/	2.3	2.5	2.3	2.2	2.1	2.4	2.2	2.1		.2
		Pdh (declared heating cap) Tol (temperature operating	kW °C	34.4	36.9	39.0	41.6	46.3	46.4 0	51.1	54.2	60.7	62.3
		limit)											
	A Con-	COPd (declared COP)		2.6	2.8		2.6		2.7	2.6	2	.5	2.6
	dition (-7°C)	Pdh (declared heating cap)	kW	30.4	32.6	34.5	36.8	41	.0	45.2	47.9	53.7	55.1
	B Condi-	COPd (declared COP)		4.0	3.7	3	.8	3.9	3.6	3	.7	3.9	4.0
		Pdh (declared heating cap)	kW	18.5	19.9	21.0	22.4	24.9	25.0	27.5	29.2	32.7	33.5
		COPd (declared COP)			.3	6.1	6.2	6.5	6.3	6.5	6.4	6	
		Pdh (declared heating cap)	kW	11.9	13.0	13.5	14.4	16.0	16.1	17.7	18.8	21.3	21.6
	D Con-	COPd (declared COP)		8.2	8.9	8.8		9.0		8.8	8.6		.7
	dition (12°C)	Pdh (declared heating cap)	kW	6.0	5.7	6.0	6.4	7	.1	7.9	8.3	13	3.1



Connection	cificatio				RYYQ22U	RYYQ24U	RYYQ26U	RYYQ28U	RYYQ30U	RYYQ32U	RYYQ34U	RYYQ36U		RYYQ40
Space heating	A Con-	· · ·	clared COP)		2.6	2.7		2.6		2.7	2.6		.5	2.6
(Average climate) recommended	dition (-7°C)	Pdh (dec	lared heating cap)	kW	30.4	32.6	34.5	36.8	41	.0	45.2	47.9	53.7	55.1
combination 2	B Condi-	COPd (de	clared COP)		4.1	3.7	2	.8	3.9	3.6	3.8	3.7	3.9	4.0
combination 2			lared heating cap)	kW	18.5	19.9	21.0	22.4	24.9	25.0	27.5	29.2	32.7	33.5
	C Condi-		clared COP)			.3	6.1	6.3	6.6	6.3	6.6	27.2	6.5	55.5
	tion (7°C)		lared heating cap)	kW	11.9	1	3.1	14.4	16.0	16.1	17.7	18.8	21.3	21.6
	D Con-		clared COP)		8.4	9.0	8.9		9.1		8.9	1010	8.8	2.110
	dition (12°C)		lared heating cap)	kW	6.0	5.7	6.0	6.4	7.2	7.1	7.9	8.3	1	3.2
Space heating	· ,	COPd (de	clared COP)		2.2	2.4	2	.2	2.1	2.4	2	.2	2.3	2.2
(Average climate)	Ibivalent	Pdh (dec	lared heating cap)	kW	34.4	36.9	39.0	41.6	46.3	46.4	51.1	54.2	60.7	62.3
recommended combination 2	TO		alent temperature)	°C			-	-		0				
compination 2	TOL		clared COP)	kW	2.2 34.4	2.4 36.9	39.0	.2 41.6	2.1 46.3	2.4 46.4	51.1	.2 54.2	2.3 60.7	2.2 62.3
			lared heating cap) perature operating	°C	54.4	50.9	59.0	41.0	40.5		51.1	54.2	00.7	02.5
		limit)	berature operating	C					-1	0				
Space heating	A Con-	,	clared COP)		2.6	2.7	2	.6	2.5	2.7	2.6	2.4	2.5	2.6
(Average climate)	dition		lared heating cap)	kW	30.4	32.6	34.5	36.8	41		45.2	47.9	53.7	55.1
recommended	(-7°C)	i un (ucc	larea neuting cup)		50.1	52.0	51.5	50.0		.0	13.2	17.5	55.7	55.1
combination 3	B Condi-	COPd (de	clared COP)		4.0	3.7	3	.8	3.9	3.6	3.7	3.6	3.8	3.9
			lared heating cap)	kW	18.5	19.9	21.0	22.4	24.9	25.0	27.5	29.2	32.7	33.5
	C Condi-		clared COP)		6.2	6.3	6.1	6.2	6		6.4	6	.3	6.4
	tion (7°C)		lared heating cap)	kW	11.9	12.9	13.5	14.4	16.0	16.1	17.7	18.8	21.2	21.6
	D Con-		clared COP)		8.2	8.9	8.8	9.0	8.6	9.0	8.9	8.3	8.5	8.4
	dition	Pdh (dec	lared heating cap)	kW	6.0	5.7	6.0	6.4	7	.1	7.9	8.3	12.9	12.8
	(12°C)													
	TBivalent		clared COP)		2.3	2.4	2	.2	2.1	2.4	2.2	2.1		.2
			lared heating cap)	kW	34.4	36.9	39.0	41.6	46.3	46.4	51.1	54.2	60.7	62.3
			alent temperature)	°C			1		1	0			1	
	TOL		clared COP)		2.3	2.4		.2	2.1	2.4	2.2	2.1		.2
			lared heating cap)	kW	34.4	36.9	39.0	41.6	46.3	46.4	51.1	54.2	60.7	62.3
			perature operating	°C					-1	0				
Composite and and		limit)			22	24	26	20	30	32	34	26	20	40
Capacity range PED	Category			HP	22	24	26	28			- 34	36	38	40
Maximum number		ablainda	orupita						Cateo 64					
Indoor index	Min.		or units		275.0	300.0	325.0	350.0	375.0	400.0	425.0	450.0	475.0	500.0
connection	Max.				715.0	780.0	845.0	910.0	975.0	1,040.0	1,105.0	1,170.0	1,235.0	1,300.0
Heat exchanger	Indoor sid	le			715.0	700.0	0 15.0	510.0		ir	1,105.0	1,17 0.0	1,235.0	1,500.
	Outdoor									ir				
	Air flow	Cooling	Rated	m³/h	21,600	25,320	24,480	26,700	26,160	31,200	30,660	31,260	35,880	36,66
	rate		Deteil	m³/h		1				31,200	30,660	31,260	35,880	36,66
Sound power level		Heating	Kated		21,000	25,320	24,480	26./00	26,160		50,000			
	Cooling	Heating Nom.	Rated	dBA	21,600 84.8 (4)	25,320 86.3 (4)	24,480 85.3 (4)	26,700 87.6 (4)	26,160 86.6 (4)					87.3 (4
Sound power level	Cooling Heating		Rated	dBA dBA	84.8 (4)	25,320 86.3 (4) 87.3 (4)	24,480 85.3 (4) 86.3 (4)	26,700 87.6 (4) 88.3 (4)	26,160 86.6 (4) 87.5 (4)	88.6 (4) 89.5 (4)	87.8 (4)	89.9 (4)	88.8 (4) 90.7 (4)	
·		Nom.	Катео			86.3 (4)	85.3 (4)	87.6 (4)	86.6 (4)	88.6 (4)			88.8 (4)	88.4 (4
Sound pressure level	Heating Cooling	Nom. Prated,h	Kated	dBA	84.8 (4) 85.4 (4)	86.3 (4) 87.3 (4)	85.3 (4) 86.3 (4)	87.6 (4) 88.3 (4)	86.6 (4) 87.5 (4) 64.5 (5)	88.6 (4) 89.5 (4) 66.0 (5)	87.8 (4) 88.9 (4)	89.9 (4) 91.5 (4)	88.8 (4) 90.7 (4)	88.4 (4
Sound pressure level	Heating Cooling Type	Nom. Prated,h	Kated	dBA	84.8 (4) 85.4 (4)	86.3 (4) 87.3 (4)	85.3 (4) 86.3 (4)	87.6 (4) 88.3 (4)	86.6 (4) 87.5 (4) 64.5 (5) R-4	88.6 (4) 89.5 (4) 66.0 (5) 10A	87.8 (4) 88.9 (4)	89.9 (4) 91.5 (4)	88.8 (4) 90.7 (4)	88.4 (4
Sound pressure level Refrigerant	Heating Cooling Type GWP	Nom. Prated,h	Kated	dBA	84.8 (4) 85.4 (4)	86.3 (4) 87.3 (4)	85.3 (4) 86.3 (4)	87.6 (4) 88.3 (4) 65.1 (5)	86.6 (4) 87.5 (4) 64.5 (5) R-4 2,00	88.6 (4) 89.5 (4) 66.0 (5) 10A 37.5	87.8 (4) 88.9 (4) 65.5 (5)	89.9 (4) 91.5 (4)	88.8 (4) 90.7 (4)	88.4 (4
Sound pressure level Refrigerant Refrigerant oil	Heating Cooling Type GWP Type	Nom. Prated,h Nom.	Kateo	dBA	84.8 (4) 85.4 (4)	86.3 (4) 87.3 (4)	85.3 (4) 86.3 (4)	87.6 (4) 88.3 (4) 65.1 (5)	86.6 (4) 87.5 (4) 64.5 (5) R-4 2,00 thetic (eth	88.6 (4) 89.5 (4) 66.0 (5) 10A 37.5 er) oil FVC	87.8 (4) 88.9 (4) 65.5 (5)	89.9 (4) 91.5 (4)	88.8 (4) 90.7 (4)	88.4 (4
Sound pressure level Refrigerant Refrigerant oil	Heating Cooling Type GWP Type	Nom. Prated,h Nom. Type	Kated	dBA dBA	84.8 (4) 85.4 (4) 62.5 (5)	86.3 (4) 87.3 (4) 64.0 (5)	85.3 (4) 86.3 (4)	87.6 (4) 88.3 (4) 65.1 (5)	86.6 (4) 87.5 (4) 64.5 (5) R-4 2,00	88.6 (4) 89.5 (4) 66.0 (5) 10A 87.5 er) oil FVC	87.8 (4) 88.9 (4) 65.5 (5) 68D	89.9 (4) 91.5 (4)	88.8 (4) 90.7 (4)	88.4 (4
Sound pressure level Refrigerant Refrigerant oil Piping connections	Heating Cooling Type GWP Type Liquid	Nom. Prated,h Nom. Type OD	Kated	dBA	84.8 (4) 85.4 (4) 62.5 (5)	86.3 (4) 87.3 (4)	85.3 (4) 86.3 (4)	87.6 (4) 88.3 (4) 65.1 (5)	86.6 (4) 87.5 (4) 64.5 (5) R-4 2,03 thetic (eth Braze co	88.6 (4) 89.5 (4) 66.0 (5) 10A 37.5 er) oil FVC nnection	87.8 (4) 88.9 (4) 65.5 (5)	89.9 (4) 91.5 (4)	88.8 (4) 90.7 (4)	88.4 (4
Sound pressure level Refrigerant Refrigerant oil Piping connections	Heating Cooling Type GWP Type Liquid	Nom. Prated,h Nom. Type OD Type	Kated	dBA dBA mm	84.8 (4) 85.4 (4) 62.5 (5)	86.3 (4) 87.3 (4) 64.0 (5)	85.3 (4) 86.3 (4)	87.6 (4) 88.3 (4) 65.1 (5) Syn	86.6 (4) 87.5 (4) 64.5 (5) R-4 2,03 thetic (eth Braze co Braze co	88.6 (4) 89.5 (4) 66.0 (5) 10A 37.5 er) oil FVC nnection	87.8 (4) 88.9 (4) 65.5 (5) 68D	89.9 (4) 91.5 (4)	88.8 (4) 90.7 (4) 66.2 (5)	88.4 (4
Sound pressure level Refrigerant Refrigerant oil Piping connections	Heating Cooling Type GWP Type Liquid Gas	Nom. Prated,h Nom. Type OD Type OD		dBA dBA mm mm	84.8 (4) 85.4 (4) 62.5 (5)	86.3 (4) 87.3 (4) 64.0 (5)	85.3 (4) 86.3 (4)	87.6 (4) 88.3 (4) 65.1 (5) Syn	86.6 (4) 87.5 (4) 64.5 (5) R-4 2,00 thetic (eth Braze col Braze col 4.9	88.6 (4) 89.5 (4) 66.0 (5) 10A 37.5 er) oil FVC nnection 19 nnection	87.8 (4) 88.9 (4) 65.5 (5) 68D	89.9 (4) 91.5 (4)	88.8 (4) 90.7 (4)	88.4 (4
Sound pressure level	Heating Cooling Type GWP Type Liquid Gas Total	Nom. Prated,h Nom. Type OD Type	Actual	dBA dBA mm	84.8 (4) 85.4 (4) 62.5 (5)	86.3 (4) 87.3 (4) 64.0 (5)	85.3 (4) 86.3 (4)	87.6 (4) 88.3 (4) 65.1 (5) Syn	86.6 (4) 87.5 (4) 64.5 (5) R-4 2,03 thetic (eth Braze co Braze co	88.6 (4) 89.5 (4) 66.0 (5) 10A 37.5 er) oil FVC nnection 19 nnection	87.8 (4) 88.9 (4) 65.5 (5) 68D	89.9 (4) 91.5 (4)	88.8 (4) 90.7 (4) 66.2 (5)	87.3 (4 88.4 (4 65.2 (5
Sound pressure level Refrigerant Refrigerant oil Piping connections	Heating Cooling Type GWP Type Liquid Gas Total piping	Nom. Prated,h Nom. Type OD Type OD		dBA dBA mm mm	84.8 (4) 85.4 (4) 62.5 (5)	86.3 (4) 87.3 (4) 64.0 (5)	85.3 (4) 86.3 (4)	87.6 (4) 88.3 (4) 65.1 (5) Syn	86.6 (4) 87.5 (4) 64.5 (5) R-4 2,00 thetic (eth Braze col Braze col 4.9	88.6 (4) 89.5 (4) 66.0 (5) 10A 37.5 er) oil FVC nnection 19 nnection	87.8 (4) 88.9 (4) 65.5 (5) 68D	89.9 (4) 91.5 (4)	88.8 (4) 90.7 (4) 66.2 (5)	88.4 (4
Sound pressure level Refrigerant Piping connections Piping connections	Heating Cooling Type GWP Type Liquid Gas Total piping length	Nom. Prated,h Nom. Type OD Type OD System	Actual	dBA dBA mm mm m	84.8 (4) 85.4 (4) 62.5 (5)	86.3 (4) 87.3 (4) 64.0 (5)	85.3 (4) 86.3 (4)	87.6 (4) 88.3 (4) 65.1 (5) Syn	86.6 (4) 87.5 (4) 64.5 (5) R-4 2,0i thetic (eth Braze co Braze co 1,9 1,00	88.6 (4) 89.5 (4) 66.0 (5) 10A er) oil FVC nnection 19 nnection 0 (6)	87.8 (4) 88.9 (4) 65.5 (5) 68D	89.9 (4) 91.5 (4)	88.8 (4) 90.7 (4) 66.2 (5)	88.4 (
Sound pressure level Refrigerant Piping connections Piping connections Indication if the hea	Heating Cooling Type GWP Type Liquid Gas Total piping length ater is equi	Nom. Prated,h Nom. Type OD Type OD System pped with	Actual n a supplementary	dBA dBA mm mm m	84.8 (4) 85.4 (4) 62.5 (5)	86.3 (4) 87.3 (4) 64.0 (5)	85.3 (4) 86.3 (4)	87.6 (4) 88.3 (4) 65.1 (5) Syn	86.6 (4) 87.5 (4) 64.5 (5) R-4 2,0: thetic (eth Braze co Braze co 1.9 1,00	88.6 (4) 89.5 (4) 66.0 (5) 10A 37.5 er) oil FVC nnection 19 nnection 0 (6)	87.8 (4) 88.9 (4) 65.5 (5) 68D	89.9 (4) 91.5 (4)	88.8 (4) 90.7 (4) 66.2 (5)	88.4 (
Sound pressure level Refrigerant Piping connections Piping connections Indication if the hea Supplementary	Heating Cooling Type GWP Type Liquid Gas Total piping length ater is equi Back-up	Nom. Prated,h Nom. Type OD Type OD System	Actual n a supplementary	dBA dBA mm mm m	84.8 (4) 85.4 (4) 62.5 (5)	86.3 (4) 87.3 (4) 64.0 (5)	85.3 (4) 86.3 (4)	87.6 (4) 88.3 (4) 65.1 (5) Syn	86.6 (4) 87.5 (4) 64.5 (5) R-4 2,0i thetic (eth Braze co Braze co 1,9 1,00	88.6 (4) 89.5 (4) 66.0 (5) 10A 37.5 er) oil FVC nnection 19 nnection 0 (6)	87.8 (4) 88.9 (4) 65.5 (5) 68D	89.9 (4) 91.5 (4)	88.8 (4) 90.7 (4) 66.2 (5)	88.4 (
Sound pressure level Refrigerant Piping connections Piping connections Indication if the hea Supplementary heater	Heating Cooling Type GWP Type Liquid Gas Total piping length ater is equi Back-up capacity	Nom. Prated,h Nom. Type OD Type OD System Pped with Heating	Actual n a supplementary elbu	dBA dBA mm mm m meater kW	84.8 (4) 85.4 (4) 62.5 (5)	86.3 (4) 87.3 (4) 64.0 (5)	85.3 (4) 86.3 (4)	87.6 (4) 88.3 (4) 65.1 (5) Syn	86.6 (4) 87.5 (4) 64.5 (5) R-4 2,0: thetic (eth Braze co Braze co 1.9 1,00 n 0	88.6 (4) 89.5 (4) 66.0 (5) 10A 37.5 er) oil FVC nnection 19 nnection 0 (6) 0 0	87.8 (4) 88.9 (4) 65.5 (5) 68D	89.9 (4) 91.5 (4)	88.8 (4) 90.7 (4) 66.2 (5)	88.4 (
Sound pressure level Refrigerant Piping connections Piping connections Indication if the her Supplementary heater Power consump-	Heating Cooling Type GWP Type Liquid Gas Total piping length ater is equi Back-up	Nom. Prated,h Nom. Type OD Type OD System pped with	Actual n a supplementary	dBA dBA mm mm m	84.8 (4) 85.4 (4) 62.5 (5)	86.3 (4) 87.3 (4) 64.0 (5)	85.3 (4) 86.3 (4)	87.6 (4) 88.3 (4) 65.1 (5) Syn	86.6 (4) 87.5 (4) 64.5 (5) R-4 2,0: thetic (eth Braze co Braze co 1.9 1,00 n 0	88.6 (4) 89.5 (4) 66.0 (5) 10A 37.5 er) oil FVC nnection 19 nnection 0 (6)	87.8 (4) 88.9 (4) 65.5 (5) 68D 0.1	89.9 (4) 91.5 (4)	88.8 (4) 90.7 (4) 66.2 (5) 41.3	88.4 (
Sound pressure level Refrigerant Piping connections Piping connections Indication if the hea Supplementary heater Power consump- tion in other than	Heating Cooling Type GWP Type Liquid Gas Total piping length ater is equi Back-up capacity Crank-	Nom. Prated,h Nom. Type OD Type OD System Pped with Heating Cooling	Actual na supplementary elbu PCK	dBA dBA mm mm m meater kW kW	84.8 (4) 85.4 (4) 62.5 (5) 15 28.6	86.3 (4) 87.3 (4) 64.0 (5)	85.3 (4) 86.3 (4) 63.5 (5)	87.6 (4) 88.3 (4) 65.1 (5) Syn	86.6 (4) 87.5 (4) 64.5 (5) R-4 2,0: thetic (eth Braze co Braze co 1,00 n 0,00	88.6 (4) 89.5 (4) 66.0 (5) 10A 37.5 er) oil FVC nnection 0 (6) 0 00	87.8 (4) 88.9 (4) 65.5 (5) 68D 0.1	89.9 (4) 91.5 (4) 67.1 (5)	88.8 (4) 90.7 (4) 66.2 (5) 41.3	88.4 (
Sound pressure level Refrigerant Piping connections Piping connections Indication if the hea Supplementary heater Power consump- tion in other than	Heating Cooling Type GWP Type Liquid Gas Total piping length ater is equi Back-up capacity Crank- case	Nom. Prated,h Nom. Type OD Type OD System Pped with Heating Cooling	Actual na supplementary elbu PCK	dBA dBA mm mm m meater kW kW	84.8 (4) 85.4 (4) 62.5 (5) 15 28.6	86.3 (4) 87.3 (4) 64.0 (5)	85.3 (4) 86.3 (4) 63.5 (5)	87.6 (4) 88.3 (4) 65.1 (5) Syn	86.6 (4) 87.5 (4) 64.5 (5) R-4 2,0: thetic (eth Braze co Braze co 1,00 n 0,00	88.6 (4) 89.5 (4) 66.0 (5) 10A 37.5 er) oil FVC nnection 0 (6) 0 00	87.8 (4) 88.9 (4) 65.5 (5) 68D 0.1	89.9 (4) 91.5 (4) 67.1 (5)	88.8 (4) 90.7 (4) 66.2 (5) 41.3	88.4 (4
Sound pressure level Refrigerant Piping connections Piping connections Indication if the hea Supplementary heater Power consump- tion in other than	Heating Cooling Type GWP Type Liquid Gas Total piping length ater is equi Back-up capacity Crank- case heater	Nom. Prated,h Nom. Type OD Type OD System Pped with Heating Cooling Heating	Actual na supplementary elbu PCK	dBA dBA mm mm m meater kW kW	84.8 (4) 85.4 (4) 62.5 (5) 15 28.6	86.3 (4) 87.3 (4) 64.0 (5)	85.3 (4) 86.3 (4) 63.5 (5)	87.6 (4) 88.3 (4) 65.1 (5) Syn	86.6 (4) 87.5 (4) 64.5 (5) R-4 2,0: thetic (eth Braze co Braze co 1,00 n 0,00	88.6 (4) 89.5 (4) 66.0 (5) 10A 37.5 er) oil FVC nnection 0 (6) 0 00	87.8 (4) 88.9 (4) 65.5 (5) 68D 2.1	89.9 (4) 91.5 (4) 67.1 (5)	88.8 (4) 90.7 (4) 66.2 (5) 41.3	88.4 (4
Sound pressure level Refrigerant Piping connections Piping connections Indication if the hea Supplementary heater Power consump- tion in other than	Heating Cooling Type GWP Type Liquid Gas Total piping length ater is equi Back-up capacity Crank- case heater mode	Nom. Prated,h Nom. Type OD Type OD System Pped with Heating Cooling Heating	Actual n a supplementary elbu PCK PCK	dBA dBA mm m m m m k W k W k W	84.8 (4) 85.4 (4) 62.5 (5) 15 28.6 0.103	86.3 (4) 87.3 (4) 64.0 (5)	85.3 (4) 86.3 (4) 63.5 (5)	87.6 (4) 88.3 (4) 65.1 (5) Syn	86.6 (4) 87.5 (4) 64.5 (5) R-4 2,0i thetic (eth Braze co Braze co 1,9 1,00 0,00 0,141	88.6 (4) 89.5 (4) 66.0 (5) 10A 37.5 er) oil FVC nnection 15 nnection 0 (6) 0 00 0.154	87.8 (4) 88.9 (4) 65.5 (5) 68D 2.1 0.1	89.9 (4) 91.5 (4) 67.1 (5)	88.8 (4) 90.7 (4) 66.2 (5) 41.3 0.1	88.4 (4 65.2 (5 192
Sound pressure level Refrigerant Piping connections Piping connections Indication if the hea Supplementary heater Power consump- tion in other than	Heating Cooling Type GWP Type Liquid Gas Total piping length ater is equi Back-up capacity Crank- case heater mode	Nom. Prated,h Nom. Type OD Type OD System Pped with Heating Cooling Cooling	Actual a supplementary elbu PCK PCK POFF	dBA dBA mm mm m meater kW kW kW	84.8 (4) 85.4 (4) 62.5 (5) 15 28.6 0.103 0.103	86.3 (4) 87.3 (4) 64.0 (5)	85.3 (4) 86.3 (4) 63.5 (5) 0.129 0.115	87.6 (4) 88.3 (4) 65.1 (5) Syn	86.6 (4) 87.5 (4) 64.5 (5) R-4 2,0i thetic (eth Braze co Braze co 1,9 1,00 0,00 0,141 0,116	88.6 (4) 89.5 (4) 66.0 (5) 10A 37.5 er) oil FVC nnection 19 nnection 0 (6) 0 0 0 0 0 0 0 0 0 0 0 0 0	87.8 (4) 88.9 (4) 65.5 (5) 68D 0.1 0.1	89.9 (4) 91.5 (4) 67.1 (5) 666 50	88.8 (4) 90.7 (4) 66.2 (5) 41.3 0.1 0.1	88.4 (4 65.2 (5 192
Sound pressure level Refrigerant Piping connections Piping connections Indication if the hea Supplementary heater Power consump- tion in other than	Heating Cooling Type GWP Type Liquid Gas Total piping length ater is equi Back-up capacity Crank- case heater mode Off mode	Nom. Prated,h Nom. Type OD Type OD System Pped with Heating Cooling Heating	Actual a supplementary elbu PCK PCK POFF POFF	dBA dBA mm mm m meater kW kW kW kW	84.8 (4) 85.4 (4) 62.5 (5) 28.6 0.103 0.103	86.3 (4) 87.3 (4) 64.0 (5)	85.3 (4) 86.3 (4) 63.5 (5) 0.129 0.115 0.129	87.6 (4) 88.3 (4) 65.1 (5) Syn	86.6 (4) 87.5 (4) 64.5 (5) R-4 2,0i thetic (eth Braze co Braze co 1,9 1,00 0,00 0,141	88.6 (4) 89.5 (4) 66.0 (5) 10A 37.5 er) oil FVC nnection 19 nnection 0 (6) 0 00 0.154 0.154	87.8 (4) 88.9 (4) 65.5 (5) 68D 0.1 0.1 0.1	89.9 (4) 91.5 (4) 67.1 (5) 666 50 666	88.8 (4) 90.7 (4) 66.2 (5) 41.3 0.1 0.1 0.1 0.1	88.4 (4 65.2 (5 92 157 192
Sound pressure level Refrigerant Piping connections Piping connections Indication if the hea Supplementary heater Power consump- tion in other than	Heating Cooling Type GWP Type Liquid Gas Total piping length ater is equi Back-up capacity Crank- case Off mode Standby	Nom. Prated,h Nom. Type OD Type OD System Pped with Heating Cooling Heating Cooling Heating Cooling	Actual Actual elbu PCK PCK POFF POFF POFF PSB	dBA dBA mm mm m meater kW kW kW kW	84.8 (4) 85.4 (4) 62.5 (5) 28.6 0.103 0.103 0.081	86.3 (4) 87.3 (4) 64.0 (5)	85.3 (4) 86.3 (4) 63.5 (5) 0.129 0.115 0.129 0.115 0.129	87.6 (4) 88.3 (4) 65.1 (5) Syn	86.6 (4) 87.5 (4) 64.5 (5) R-4 2,0 thetic (eth Braze co 1,9 1,00 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,	88.6 (4) 89.5 (4) 66.0 (5) 10A 37.5 er) oil FVC nnection 19 nnection 0 (6) 0 0 0 0 0 0 0 0 0 0 0 0 0	87.8 (4) 88.9 (4) 65.5 (5) 68D 0.1 0.1 0.1	89.9 (4) 91.5 (4) 67.1 (5) 666 50 666 50	88.8 (4) 90.7 (4) 66.2 (5) 41.3 0.1 0.1 0.1 0.1	88.4 (4 65.2 (5 92 157 192 157
Sound pressure level Refrigerant Refrigerant oil Piping connections	Heating Cooling Type GWP Type Liquid Gas Total piping length ater is equi Back-up capacity Crank- case heater mode Off mode Standby mode	Nom. Prated,h Nom. Type OD Type OD System Pped with Heating Cooling Heating Cooling Heating	Actual Actual elbu PCK PCK POFF POFF PSB PSB	dBA dBA mm mm m meater kW kW kW kW kW kW	84.8 (4) 85.4 (4) 62.5 (5) 15 28.6 0.103 0.103 0.081 0.103	86.3 (4) 87.3 (4) 64.0 (5)	85.3 (4) 86.3 (4) 63.5 (5) 0.129 0.115 0.129 0.115 0.129	87.6 (4) 88.3 (4) 65.1 (5) Syn	86.6 (4) 87.5 (4) 64.5 (5) R-4 2,0 thetic (eth Braze co 1,9 1,00 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,	88.6 (4) 89.5 (4) 66.0 (5) 10A 37.5 er) oil FVC nnection 19 nnection 0 (6) 0 0 0 0 0 0 0 0 0 0 0 0 0	87.8 (4) 88.9 (4) 65.5 (5) 68D 0.1 0.1 0.1 0.1 0.1 0.1	89.9 (4) 91.5 (4) 67.1 (5) 666 50 666 50 666	88.8 (4) 90.7 (4) 66.2 (5) 41.3 41.3 0.1 0.1 0.1 0.1	88.4 (4 65.2 (5 992 157 192 157
Sound pressure level Refrigerant Piping connections Piping connections Indication if the hea Supplementary heater Power consump- tion in other than	Heating Cooling Type GWP Type Liquid Gas Total piping length ater is equi Back-up capacity Crank- case heater mode Off mode Standby mode Thermo-	Nom. Prated,h Nom. Type OD Type OD System Pped with Heating Cooling Heating Cooling Heating Cooling Heating Cooling	Actual Actual PCK PCK POFF POFF POFF PSB PSB PTO	dBA dBA mm mm mm kW kW kW kW kW kW kW kW kW	84.8 (4) 85.4 (4) 62.5 (5) 15 28.6 0.103 0.003 0.081 0.103 0.081 0.103 0.009	86.3 (4) 87.3 (4) 64.0 (5)	85.3 (4) 86.3 (4) 63.5 (5) 0.129 0.115 0.129 0.115 0.129 0.129	87.6 (4) 88.3 (4) 65.1 (5) Syn	86.6 (4) 87.5 (4) 64.5 (5) R-4 2,0 thetic (eth Braze co Braze co 1,9 1,00 0,0 0,0 0,0 0,141 0,116 0,141 0,116	88.6 (4) 89.5 (4) 66.0 (5) 10A 37.5 er) oil FVC onnection 0 (6) 0 0 0 0 0 0 0 0 0 0 0 0 0	87.8 (4) 88.9 (4) 65.5 (5) 68D 0.1 0.1 0.1 0.1 0.1 0.1	89.9 (4) 91.5 (4) 67.1 (5) 666 50 666 50 666 50 666 0.019	88.8 (4) 90.7 (4) 66.2 (5) 41.3 41.3 0.1 0.1 0.1 0.1	88.4 (4 65.2 (5 192 192 157 192 157 192
Sound pressure level Refrigerant Piping connections Piping connections Piping connections Supplementary heater Power consump- tion in other than	Heating Cooling Type GWP Type Liquid Gas Total piping length ater is equi Back-up capacity Crank- case heater mode Off mode Standby mode Thermo- stat-off mode	Nom. Prated,h Nom. Type OD Type OD System Pped with Heating Cooling Heating Cooling Heating Cooling Heating Cooling	Actual a supplementary elbu PCK PCK PCK POFF POFF PSB PSB PTO PTO PTO	dBA dBA mm mm mm kW kW kW kW kW kW kW kW kW	84.8 (4) 85.4 (4) 62.5 (5) 15 28.6 0.103 0.003 0.081 0.103 0.081 0.103 0.009	86.3 (4) 87.3 (4) 64.0 (5)	85.3 (4) 86.3 (4) 63.5 (5) 0.129 0.115 0.129 0.115 0.129 0.129	87.6 (4) 88.3 (4) 65.1 (5) Syn	86.6 (4) 87.5 (4) 64.5 (5) R-4 2,0 thetic (eth Braze co Braze co 1,9 1,00 0,0 0,0 0,0 0,141 0,116 0,141 0,116	88.6 (4) 89.5 (4) 66.0 (5) 10A 37.5 er) oil FVC onection 10 0 (6) 0 0 0 0 0 0 0 0 0 0 0 0 0	87.8 (4) 88.9 (4) 65.5 (5) 68D 0.1 0.1 0.1 0.1 0.1 0.1	89.9 (4) 91.5 (4) 67.1 (5) 666 50 666 50 666 50 666 0.019	88.8 (4) 90.7 (4) 66.2 (5) 41.3 41.3 0.1 0.1 0.1 0.1	88.4 (d 65.2 (d 192 157 192 157 192

	ecifications Sys [*]				-	-	RYYQ48U	-	RYYQ52U	-
System	Outdoor unit mod	lule 1		RYMQ10U	RYMQ12U	RYMQ14U		RYMQ16U		RYMQ18U
	Outdoor unit mod	lule 2				RYMQ16U			RYM	Q18U
	Outdoor unit mod	lule 3			RYM	Q16U			RYMQ18U	
Recommended co	ombination			12 x	6 x	1 x	12 x	3 x	6 x	9 x
				FXFQ63AVEB	FXFQ50AVEB	FXFQ50AVEB	FXFQ63AVEB	FXFQ50AVEB	FXFQ50AVEB	FXFQ50AVEB
				+ 4 x	+ 8 x	+ 13 x	+ 6 x	+ 13 x	+ 14 x	+ 15 x
				FXFQ80AVEB	FXFQ63AVEB	FXFQ63AVEB	FXFQ80AVEB	FXFQ63AVEB	FXFQ63AVEB	FXFQ63AVEB
					+ 4 x	+ 4 x		+ 4 x	+ 2 x	
					FXFQ80AVEB	FXFQ80AVEB		FXFQ80AVEB	FXFQ80AVEB	
Recommended co	ombination 2			12 x FXSQ63A2VEB + 4 x	6 x FXSQ50A2VEB + 8	1 x FXSQ50A2VEB + 13	12 x FXSQ63A2VEB + 6 x	3 x FXSQ50A2VEB + 13	6 x FXSQ50A2VEB + 14	9 x FXSQ50A2VEB + 15
				FXSQ80A2VEB	x FXSQ63A2VEB + 4 x	x FXSQ63A2VEB + 4 x	FXSQ80A2VEB	x FXSQ63A2VEB + 4 x	x FXSQ63A2VEB + 2 x	FXSQ63A2VEB
					FXSQ80A2VEB	FXSQ80A2VEB		FXSQ80A2VEB	FXSQ80A2VEB	
Recommended co	ombination 3			12 x FXMQ63P7VEB + 4	6 x FXMQ50P7VEB + 8	1 x FXMQ50P7VEB + 13	12 x FXMQ63P7VEB + 6	3 x FXMQ50P7VEB + 13	6 x FXMQ50P7VEB + 14	9 x FXMQ50P7VEB + 1
				x FXMQ80P7VEB	x FXMQ63P7VEB + 4 x	x FXMQ63P7VEB + 4 x	x FXMQ80P7VEB	x FXMQ63P7VEB + 4 x	x FXMQ63P7VEB + 2 x	x FXMQ63P7VEB
					FXMQ80P7VEB	FXMQ80P7VEB		FXMQ80P7VEB	FXMQ80P7VEB	
Continuous heatir	ng						Yes			
Cooling capacity	Prated,c		kW	118.0 (1)	123.5 (1)	130.0 (1)	135.0 (1)	140.4 (1)	145.8 (1)	151.2 (1)
Heating capacity	Nom. 6°CWB		kW	118.0 (2)	123.5 (2)	130.0 (2)	135.0 (2)	140.4 (2)	145.8 (2)	151.2 (2)
5	Prated,h		kW	118.0 (2)	123.5 (2)	130.0 (2)	135.0 (2)	140.4 (2)	145.8 (2)	151.2 (2)
	Max. 6°CWB		kW	131.5 (2)	137.5 (2)	145.0 (2)	150.0 (2)	156.5 (2)	163.0 (2)	169.5 (2)
Power input - 50H		6°CWB	kW	32.66 (2)	34.73 (2)	35.77 (2)	37.62 (2)	39.30 (2)	40.98 (2)	42.66 (2)
COP at nom.	6°CWB	0 0.1.0	kW/kW	3.61 (2)	3.56 (2)	3.63 (2)	3.59 (2)	3.57 (2)	3.56 (2)	3.54 (2)
capacity	0 0110		1.44/1.44	3.01(2)	5.55 (2)	5.05 (2)	5.55 (2)	5.57 (2)	5.55 (2)	5.57 (2)
ESEER - Automatio	-			6.65	6.62	6.60	6.50	6.46	6.42	6.38
ESEER - Standard	-			5.19	5.17	5.13	5.05	5.02	4.99	4.97
SCOP					.2	-	5.05	4.2		4.97
	lad as white sting 2			-				4.2		
	ded combination 2			4.3			.2			.3
	ded combination 3				.2	4	l.1		4.2	
SEER				6.6	6.5			6.4		
SEER recommend				6.6	6.3	6.4		.3		.4
SEER recommend	ed combination 3			6.5		5.3	6.2	6.3	6	.4
ηs,c			%	261.2	255.9	254.9	251.7	252.8	253.7	254.1
ηs,c recommende	ed combination 2			259.3	249.2	252.2	248.3	250.0	251.6	252.5
ηs,c recommende	ed combination 3			255.4	250.1	248.3	244.2	248.0	251.5	253.9
ηs,h			%	165.5	164.5	162.0	162.8	165.2	167.2	169.4
ηs,h recommende	ed combination 2			167.3	165.6	163.5	164.3	166.7	168.7	170.8
ηs,h recommende	ed combination 3			164.4	163.5	161.3	161.7	163.2	164.4	166.0
Space cooling	A Condi- EERd			2	.3	2.4	2.3	2.1	2.0	1.9
	tion (35°C Pdc		kW	118.0	123.5	130.0	135.0	140.4	145.8	151.2
	- 27/19)									
	B Condi- EERd				4.4		4.3	4	.2	4.1
	tion (30°C Pdc		kW	86.9	91.0	95.8	99.5	103.4	107.4	111.4
	- 27/19)									
	C Condi- EERd			8.2				.1		
	tion (25°C Pdc		kW	55.9	58.5	61.6	64.0	66.5	69.1	71.6
	- 27/19)									
	D Condi- EERd			15.4	14.4	14	1.3	15.9	17.6	19.1
	tion (20°C Pdc		kW	24.8	26.0	27.4	28.4	29.6	30.7	34.4
	- 27/19)									
Space cooling	A Condi- EERd				2.3	1	2.2	2.1	2.0	1.9
recommended	tion (35°C									
combination 2	- 27/19)									
Space cooling	A Condi- Pdc		kW	118.0	123.5	130.0	135.0	140.4	145.8	151.2
recommended	tion (35°C			110.0	123.5	150.0	155.0	110.1	115.0	131.2
combination 2	- 27/19)									
	B Condi- EERd			4.4	Δ	l.3	Δ	.2	4	l.1
	tion (30°C Pdc		kW	86.9	91.0	95.8	99.5	103.5	107.4	111.4
	- 27/19)		~ * * *	00.9	91.0	5.0	55.5	103.3	107.4	111.4
	C Condi- EERd			0.2	70	0 1	0	0		 0 1
			1.1.4.1	8.2	7.9	8.1		.0		3.1
	tion (25°C Pdc		kW	55.9	58.5	61.6	63.9	66.5	69.0	71.6
				1		1				1
	- 27/19)			15.2		14.0		15 4	17.4	10.0
	D Condi- EERd tion (20°C Pdc		kW	15.3 24.8	26.0	14.0 27.4	28.4	15.6 29.6	17.4 30.7	18.9 34.1

Technical spe				RYYQ42U		RYYQ46U				1
Space cooling	A Condi-				2.3	1	2.2	2.1	2.0	1.9
recommended combination 3	tion (35°C - 27/19)		kW	118.0	123.5	130.0	135.0	140.4	145.8	151.2
	B Condi-			4		4.2		4	1.1	
	tion (30°C - 27/19)	Pdc	kW	87.0	91.0	95.8	99.5	103.5	107.4	111.4
	C Condi-	EERd		8.0	7	.9	7.8	7.9	8.0	8.2
	tion (25°C - 27/19)	Pdc	kW	55.9	58.5	61.6	63.9	66.5	69.1	71.6
	D Condi-	EERd		15.2	14.2	13.9	13.8	15.6	17.5	19.1
	tion (20°C - 27/19)		kW	24.8	26.0	27.4	28.4	29.6	30.7	34.7
Space heating		COPd (declared COP)		2.4	2.3	2	.4	2.3	2.2	2.1
(Average climate)		Pdh (declared heating cap)	kW	62.4	64.8	67.0	69.6	74.3	79.0	83.7
		Tbiv (bivalent temperature)	°C				-10			
	TOL	COPd (declared COP)		2.4	2.3	2	.4	2.3	2.2	2.1
		Pdh (declared heating cap) Tol (temperature operating	kW °C	62.4	64.8	67.0	69.6 -10	74.3	79.0	83.7
	A Con-	limit) COPd (declared COP)				2.7			2	
	dition	Pdh (declared heating cap)	kW	55.2	57.3	59.3	61.6	65.7	69.9	74.0
	(-7°C) B Condi-	COPd (declared COP)		3	7	3	6	3.7	3.8	3.9
		Pdh (declared heating cap)	kW	33.6	34.9	36.1	37.5	40.0	42.5	45.1
	C Condi-	COPd (declared COP)	N V V	55.0		6.2	6.3	6.5	6.6	6.8
		Pdh (declared heating cap)	kW	21.6	22.4	23.2	24.1	25.7	27.4	29.0
	D Con-	COPd (declared COP)		8		8.7	8.8	8.9		0.0
	dition (12°C)	Pdh (declared heating cap)	kW	9.9	10.0	10.3	10.7	12.0		4.2
Space heating	A Con-	COPd (declared COP)				2.7		1	2	
(Average climate) recommended	dition (-7°C)	Pdh (declared heating cap)	kW	55.2	57.3	59.3	61.6	65.7	69.9	74.0
combination 2	B Condi-	COPd (declared COP)		3	7	3	6	3.7	3.8	3.9
combination 2		Pdh (declared heating cap)	kW	33.6	34.9	36.1	37.5	40.0	42.6	45.1
		COPd (declared COP)	KVV.	6.4	54.9	6.3	57.5	6.5	6.7	6.8
		Pdh (declared heating cap)	kW	21.6	22.4	22.8	24.1	25.7	27.4	29.0
	D Con-	COPd (declared COP)		8		8.8	8.9	9.0		9.1
	dition (12°C)	Pdh (declared heating cap)	kW	10		10.3	10.7	12.2		4.4
Space heating		COPd (declared COP)		2.4	2.3	2	.4	2.3	2.2	2.1
(Average climate)		Pdh (declared heating cap)	kW	62.4	64.8	67.0	69.6	74.3	79.0	83.7
recommended		Tbiv (bivalent temperature)	°C				-10			
combination 2	TOL	COPd (declared COP)		2.4	2.3	2	.4	2.3	2.2	2.1
		Pdh (declared heating cap)	kW	62.4	64.8	67.0	69.6	74.3	79.0	83.7
		Tol (temperature operating limit)	°C				-10			
Space heating	A Con-	COPd (declared COP)		2.7	2.6	2	.7	2	.6	2.5
(Average climate) recommended	dition (-7°C)	Pdh (declared heating cap)	kW	55.2	57.3	59.3	61.6	65.7	69.9	74.0
combination 3		COPd (declared COP)		3	7		3.6		3.7	3.8
	tion (2°C)	Pdh (declared heating cap)	kW	33.6	34.9	36.1	37.5	40.0	42.5	45.1
		COPd (declared COP)		6.3	6	.2	6.3	6	.4	6.5
	. ,	Pdh (declared heating cap)	kW	21.6	22.4	23.2	24.1	25.7	27.3	29.0
	D Con- dition	COPd (declared COP) Pdh (declared heating cap)	kW	9.9	6 10.0	8.7 10.3	8.8 10.7	11.8	8.7	3.7
	(12°C)			24	2.2	-	4	-		~ ~ ~
	IBIVAlent	COPd (declared COP)	L\\/	2.4	2.3	670			.2	2.1
		Pdh (declared heating cap)	kW °C	62.4	64.8	67.0	69.6	74.3	79.0	83.7
	TOL	Tbiv (bivalent temperature)	°C	2.4	1 2	~	-10		2	21
	IUL	COPd (declared COP) Pdh (declared heating cap)	kW	2.4 62.4	2.3 64.8	67.0	.4 69.6	74.3	.2 79.0	2.1 83.7
		Tol (temperature operating	°C	02.4	04.0	67.0	-10	74.5	79.0	63./
Capacity range		limit)	HP	42	44	16	48	50	50	54
Capacity range	Category		n۳	42	44	46	48 Category II	50	52	54
							64 (3)			
	Siconnect			525.0	550.0	575.0	600.0	625.0	650.0	675.0
Maximum number	Min				0.000	0.01	000.0	023.0	0.000	0/ 5.0
Maximum number Indoor index	Min. Max			1		1 4 9 5 0	1560.0	1625.0	1690.0	1755 0
Maximum number ndoor index connection	Max.			1,365.0	1,430.0	1,495.0	1,560.0 Air	1,625.0	1,690.0	1,755.0
Maximum number	Max. Indoor sid			1		1,495.0	Air	1,625.0	1,690.0	1,755.0
Maximum number ndoor index connection	Max.		m³/h	1		1,495.0 44,580		1,625.0 46,260	45,720	45,180

Technical spe	cificatio	ns Syst	em		RYYQ42	2U RY	YQ44U	RYYQ46U	RYYQ48	UR	YYQ50U	RYYQ	52U F	RYYQ54U
Sound power level	Cooling	Nom.		dBA	89.1 (4)		89.8 (4)	89.3 (4)	90.4 (4)		89.8 (4)	89.3	(4)	88.6 (4)
	Heating	Prated,h		dBA	90.1 (4)		90.5 (4)	90.4 (4)	91.3 (4)		90.9 (4)	90.5	(4)	90.1 (4)
Sound pressure level	Cooling	Nom.		dBA	66.5 (5)		67.2 (5)	67.0 (5)	67.8 (5)		67.5 (5)	67.1 (5)	66.8 (5)
Refrigerant	Туре							1	R-410A					
	GWP								2,087.5					
Refrigerant oil	Туре							Synth	etic (ether) c	il FVCe	68D			
Piping connections		Туре							Braze conne					
		OD		mm	1				19.1					
Piping connections	Gas	Туре							Braze conne	tion				
		OD		mm					41.3					
	Total	System	Actual	m					1,000 (6)					
	piping													
	length													
			a supplementary h						no					
Supplementary	Back-up	Heating	elbu	kW					0.0					
heater	capacity	c li	DCV	1.14/										
Power consump-	Crank-	Cooling	PCK	kW		0.007			0.000		0.040	0.05	-	0.077
tion in other than	case	Heating	PCK	kW		0.206		0	.231		0.243	0.25	5	0.267
active mode	heater mode													
	Off mode	Cooling	POFF	kW		0.190		0	223		0.224	0.22	5	0.226
	On mode	Heating	POFF	kW		0.190			.231		0.224	0.22		0.226
	Standby	Cooling	PSB	kW		0.200			223		0.243	0.23		0.226
	mode	Heating	PSB	kW		0.206			.231		0.224	0.22		0.220
	Thermo-		PTO	kW		0.200		0	.2.51		0.0245	0.23		0.207
	stat-off	Heating		kW		0.251		0	292		0.293		0.29	4
	mode	ricating	110	IX V V		0.251		0.	272		0.275		0.27	т
Cooling		radation c	oolina)						0.25					
Heating		radation h							0.25					
			<u>,</u>											
Electrical spe	cificatio	ns Syste	em		RYYQ22U	RYYQ24U	J RYYQ26U	J RYYQ28U F	RYYQ30U RY	(Q32U	RYYQ34U	RYYQ36U	RYYQ38	U RYYQ40U
Power supply	Name								Y1					
	Phase								3N~					
	Frequenc	:y		Hz					50					
	Voltage			V					380-415					
Power supply intak					ļ			Both ii	ndoor and ou	itdoor	unit			
Voltage range	Min.			%					-10					
<u> </u>	Max.	Carling		%	22.0 (7)	25 2 (7)	201(7)	207(7)	10	0 (7)	20.0 (7)	440(7)	442/	(7)
Current	Nominal	Cooling		A	22.9 (7)	25.2 (7)	28.1 (7)	30.7 (7)	33.5 (7) 36	.0 (7)	38.8 (7)	44.9 (7)	44.3 (7	7) 43.7 (7)
	running current													
	(RLA)													
Current - 50Hz	Nominal	Combina	- Cooling											
current 50112	running	tion A	cooling											
	current		- Cooling						_					
	(RLA)	tion B	coomig											
			SC) - remark						See note	8				
	Zmax	List							No requirem					
		Ssc value		kVa	11,573 (8)	11.597 (8	i) 12.831 (8	3) 13,585 (8) 14			16.352 (8)	17,359 (8)	19,397 (8) 20,378 (8)
		n circuit am		A	46.0		51.0 (9)			.0 (9)	66.0 (9)	70.0 (9)	76.0 (9	
		n fuse amp		А			3 (10)			80				00 (10)
Power Perfor-	Power		- 35°C ISO - Full load	1			. ,		-		. ,			. ,
mance	factor	tion B	46°C ISO - Full load						-					
Wiring connec-	For	Quantity			1				5G					
tions - 50Hz	power	,												
	supply													
	For	Quantity							2					
	connec-	Remark							F1,F2					
	tion with													
	indoor													
P1 () 1					B \///		No	D)///A	DV/VC			Diate	E011	
Electrical spec		ns Syste	em		RYYQ42	2U RY	YQ44U	RYYQ46U		UR	Y YQ50U	RYYQ	52U	x
Power supply	Name				1				Y1					

Power supply	Name		Y1
	Phase		3N~
	Frequency	Hz	50
	Voltage	V	380-415
Power supply int	ake		Both indoor and outdoor unit
Voltage range	Min.	%	-10
	Max.	%	10



Specifications Specifications 2

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Electrical sp	ecificatio	ns Syst	em		RYYQ42U	RYYQ44U	RYYQ46U	RYYQ48U	RYYQ50U	RYYQ52U	RYYQ54U
Current	Nominal running current (RLA)	Cooling		A	46.2 (7)	48.7 (7)	51.4 (7)	54.0 (7)	56.8 (7)	59.6 (7)	62.4 (7)
Current - 50Hz	Nominal running current	tion A	a- Cooling a- Cooling				1	-		1	
			SC) - remark					See note 8			
	Zmax	List					1	lo requiremen	ts		
	Minimum	Ssc value	2	kVa	20,629 (8)	21,132 (8)	21,887 (8)	22,641 (8)	23,899 (8)	25,157 (8)	26,415 (8)
	Minimum	circuit an	nps (MCA)	А	84.0 (9)	86.0 (9)	89.0 (9)	93.0 (9)	97.0 (9)	101.0 (9)	105.0 (9)
	Maximum	n fuse amp	os (MFA)	А		100 (10)			125	(10)	
Power Perfor-	Power	Combina	a- 35°C ISO - Fu	ll load				-			
mance	factor	tion B	46°C ISO - Fu	III load				-			
Wiring connec- tions - 50Hz	For power supply	Quantity	/					5G			
	For	Quantity	/					2			
	connec- tion with indoor	Remark						F1,F2			

Technical spe	cifications Module		RYMQ10U	RYMQ12U	RYMQ16U	RYMQ8U	RYMQ14U	RYMQ18U	RYMQ20U
Recommended co	mbination		4 x	6 x	4 x	4 x	1 x	3 x	2 x
			FXFQ63AVEB	FXFQ50AVEB	FXFQ63AVEB	FXFQ50AVEB	FXFQ50AVEB	FXFQ50AVEB	FXFQ50AVEB
					+ 2 x		+ 5 x	+ 5 x	+ 6 x
					FXFQ80AVEB			FXFQ63AVEB	
Recommended co	mbination 2		4 x FXSQ63A2VEB	6 x FXSQ50A2VEB	4 x FXSQ63A2VEB + 2 x	4 x FXSQ50A2VEB		3 x FXSQ50A2VEB + 5 x	
					FXSQ80A2VEB		FXSQ63A2VEB	FXSQ63A2VEB	FXSQ63A2VEB
Recommended co	mbination 3		4 x FXMQ63P7VEB	6 x FXMQ50P7VEB	4 x FXMQ63P7VEB + 2 x	4 x FXMQ50P7VEB		3 x FXMQ50P7VEB + 5 x	
					FXMQ80P7VEB		FXMQ63P7VEB	FXMQ63P7VEB	FXMQ63P7VEB
Cooling capacity	Prated,c	kW	28.0 (1)	33.5 (1)	45.0 (1)	22.4 (1)	40.0 (1)	50.4 (1)	52.0 (1)
Heating capacity	Nom. 6°CWB	kW	28.0 (2)	33.5 (2)	45.0 (2)	22.4 (2)	40.0 (2)	50.4 (2)	56.0 (2)
	Prated,h	kW	28.0 (2)	33.5 (2)	45.0 (2)	22.4 (2)	40.0 (2)	50.4 (2)	56.0 (2)
	Max. 6°CWB	kW	31.5 (2)	37.5 (2)	50.0 (2)	25.0 (2)	45.0 (2)	56.5 (2)	63.0 (2)
Power input - 50H	J	kW	7.58 (2)	9.65 (2)	12.54 (2)	5.40 (2)	10.69 (2)	14.22 (2)	17.47 (2)
COP at nom.	6°CWB	kW/kW	3.69 (2)	3.47 (2)	3.59 (2)	4.15 (2)	3.74 (2)	3.54 (2)	3.20 (2)
capacity									
ESEER - Automatic			7.20	6.96	6.50	7.53	6.83	6.38	5.67
ESEER - Standard			5.67	5.50	5.05	6.37	5.31	4.97	4.42
SCOP			4.3	4.1	4.0	4.3	4.0	4.2	4.0
SCOP recommend			4.3		4.1	4.2	4.0	4.2	4.0
SCOP recommend	ed combination 3			l.1	4.0	4.2	4.0	4.1	3.9
SEER			6.8	6.3	6.0	7.6	6.3	6.0	5.9
SEER recommende			6.8	-	.9	6.9	6.3	6.0	5.9
SEER recommende	ed combination 3		6.8	6.2	5.8	7.5	6.2	6.0	5.9
ηs,c		%	267.6	247.8	236.5	302.4	250.7	238.3	233.7
ηs,c recommende			270.5	233.5	234.2	273.6	250.0	236.8	233.9
ηs,c recommende	d combination 3		267.1	246.3	230.4	295.2	246.7	238.2	233.1
ηs,h		%	168.2	161.4	157.8	167.9	155.4	163.1	156.6
ηs,h recommende			170.6	161.3	159.5	165.4	157.2	164.8	158.2
ηs,h recommende			162.0	160.6	156.8	165.6	155.7	159.6	153.4
Space cooling	A Condi- EERd		2.3	2.4	2.1	3.0	2.6		.9
	tion (35°C Pdc	kW	28.0	33.5	45.0	22.4	40.0	50.4	52.0
	- 27/19)					1			
	B Condi- EERd		4.7	4.3	3.9	5.2	4.1	3.8	3.7
	tion (30°C Pdc	kW	20.6	24.7	33.2	16.5	29.5	37.1	38.3
	- 27/19)								
	C Condi- EERd		8.3		.7	9.5	7.8	7.5	7.3
	tion (25°C Pdc	kW	13.3	15.9	21.3	10.6	18.9	23.9	24.6
	- 27/19)								
	D Condi- EERd		17.0	13.9	14.2	18.8	14.3		3.3
	tion (20°C Pdc	kW	9.3	9.4	9.5	8.0	8.4	11	1.5
	- 27/19)								

		ns Module		1		RYMQ16U			RYMQ18U	RYMQ20
Space cooling	A Condi-				.4	2.1		.6	1.	1
ecommended	tion (35°C - 27/19)	Pdc	kW	28.0	33.5	45.0	22.4	40.0	50.4	52.0
	B Condi-	EERd		4.7	4.0	3.8	4.9	4.1	3.7	3.6
	tion (30°C		kW	20.6	24.7	33.2	16.5	29.5	37.1	38.3
	- 27/19) C Condi-	FERd		8.5	7.1	7.6	8.8	7.9	7.5	7.3
	tion (25°C			0.5	7.1	7.0	0.0	1.5	7.5	7.5
	- 27/19)									
pace cooling ecommended	C Condi- tion (25°C		kW	13.3	15.9	21.3	10.6	18.9	23.9	24.6
ombination 2	- 27/19)									
	D Condi-	EERd		17.2	13.1	14.0	15.1	14.0	18.1	18.9
	tion (20°C - 27/19)	Pdc	kW	9.3	9.1	9.5	8.8	8.4	11.4	10.9
pace cooling	A Condi-	EERd		2.3	2.4	2.1	3.0	2.6	1	.9
ecommended	tion (35°C		kW	28.0	33.5	45.0	22.4	40.0	50.4	52.0
ombination 3	- 27/19) B Condi-	FFRd		4.7	4.2	3.7	5.1	4.0	3.7	3.6
	tion (30°C		kW	20.6	24.7	33.2	16.5	29.5	37.1	38.3
	- 27/19)									
	C Condi-			8.4	7.7	7.4	9.6	7.7	7.6	7.3
	tion (25°C - 27/19)	Pdc	kW	13.3	15.9	21.3	10.6	19.0	23.9	24.6
	D Condi-	EERd		16.9	13.7	14.1	16.0	14.0	18	8.3
	tion (20°C - 27/19)	Pdc	kW	9.3	9.4	9.5	9.1	8.4	11	.6
pace heating		COPd (declared COP)		2.4	2.0	2.2	2.5	2.3	1.9	1.8
Average climate)		Pdh (declared heating cap)	kW	16.0	18.4	23.2	13.7	20.6	27.9	31.0
		Tbiv (bivalent temperature)	°C				-10			
	TOL	COPd (declared COP)		2.4	2.0	2.2	2.5	2.3	1.9	1.8
		Pdh (declared heating cap)	kW	16.0	18.4	23.2	13.7	20.6	27.9	31.0
		Tol (temperature operating limit)	°C				-10			
	A Con-	COPd (declared COP)		2.6	2.4	2.6	2.7	2.6	2.4	2.1
	dition	Pdh (declared heating cap)	kW	14.2	16.3	20.5	12.1	18.2	24.7	27.4
	(-7°C)	COPd (declared COP)		3	0	3.5	3.9	3.5	3.7	3.6
		Pdh (declared heating cap)	kW	8.6	9.9	12.5	7.4	11.1	15.0	16.7
		COPd (declared COP)	KVV	6.4	6.1	1	.3	6.1	6.7	6.5
		Pdh (declared heating cap)	kW	5.5	6.4	8.0	5.0	7.1	9.7	10.7
	D Con-	COPd (declared COP)		8.2	7.9	8.6	7.9	8.5	9.0	9.1
	dition	Pdh (declared heating cap)	kW	5.9	6.3	4.9	5.9	4.9		.1
pace heating	(12°C) A Con-	COPd (declared COP)		2.7	2.4	2.6	2.7	2.6	2.4	2.2
Average climate)	dition	Pdh (declared heating cap)	kW	14.2	16.3	20.5	12.1	18.2	24.7	27.4
ecommended ombination 2	(-7°C) B Condi-	COPd (declared COP)		4.0	3.9	3.5	3.9	3.5	3.8	3.7
		Pdh (declared heating cap)	kW	8.6	9.9	12.2	7.4	11.1	15.0	16.7
		COPd (declared COP)		6.5	6.1	1	.3	6.1	6.8	6.5
		Pdh (declared heating cap)	kW	5.5	6.4	8.0	5.0	7.1	9.7	10.7
	D Con-	COPd (declared COP)		8.3	7.9	8.7	7.8	8.6	9.1	9.2
	dition (12°C)	Pdh (declared heating cap)	kW	6.0	6.4	5.0	5.9	4.9	7.	.2
		COPd (declared COP)		2.4	1.9	2.2	2.4	2.3	1.9	1.8
		Pdh (declared heating cap)	kW	16.0	18.4	23.2	13.7	20.6	27.9	31.0
		Tbiv (bivalent temperature)	°C				-10			
	TOL	COPd (declared COP)		2.4	1.9	2.2	2.4	2.3	1.9	1.8
pace heating	TOL	Pdh (declared heating cap)	kW	16.0	18.4	23.2	13.7	20.6	27.9	31.0
Average climate) ecommended		Tol (temperature operating limit)	°C				-10			

Technical spe				1	1	RYMQ16U		-	RYMQ18U			
Space heating	A Con-	COPd (declared COP)		2.6	2.4	2.6	2.7	2.6	2.4	2.1		
(Average climate) recommended	dition (-7°C)	Pdh (declared heating cap)	kW	14.2	16.3	20.5	12.1	18.2	24.7	27.4		
combination 3	B Condi-	COPd (declared COP)		3.7	3.9	3.5	3.9	3.5	3.7	3.6		
	tion (2°C)	Pdh (declared heating cap)	kW	8.6	9.9	12.5	7.4	11.1	15.0	16.7		
		COPd (declared COP)		6.4	6.0		.2	6.1	6.5	6.3		
		Pdh (declared heating cap)	kW	5.5	6.4	8.0	4.9	7.1	9.7	10.7		
	D Con-	COPd (declared COP)	R	8.1	7.8	8.6	7.8	8.5	1	3.7		
	dition		kW	5.9		4.9				5.9		
	(12°C)	Pdh (declared heating cap)	KVV		6.2		5.8	4.9				
	TBivalent	COPd (declared COP)		2.4	2.0	2.2	2.5	2.3	1.9	1.8		
		Pdh (declared heating cap)	kW	16.0	18.4	23.2	13.7	20.6	27.9	31.0		
		Tbiv (bivalent temperature) °C				-10					
	TOL	COPd (declared COP)		2.4	2.0	2.2	2.5	2.3	1.9	1.8		
		Pdh (declared heating cap)	kW	16.0	18.4	23.2	13.7	20.6	27.9	31.0		
		Tol (temperature operating	°C				-10					
		limit)										
Capacity range			HP	10	12	16	8	14	18	20		
PED	Category						Category II		10	20		
LD	Most	Name					Accumulator					
	critical	Ps*V	D~~*I		25	A1E		A1E		02		
		r5" V	Bar*l	3.	25	415	325	415	4	93		
	part											
Maximum number		table indoor units			1	1	64 (3)	1				
Indoor index	Min.			125.0	150.0	200.0	100.0	175.0	225.0	250.0		
connection	Max.			325.0	390.0	520.0	260.0	455.0	585.0	650.0		
Dimensions	Unit	Height	mm				1,685					
		Width	mm	9	30	1,240	930		1,240			
		Depth	mm			1,210	765	1	1/2.10			
	Packed	Height	mm				1,820					
					05	1 205			1 205			
	unit	Width	mm	9	95	1,305	995		1,305			
		Depth	mm			1	860	1				
Weight	Unit		kg		98	275	198	275		08		
	Packed unit		kg	2	11	291	211	291	3	24		
Packing	cking Material						Carton					
	Weight		kg	1	.8	2.2	1.8		2.2			
Packing 2	Material						Wood					
	Weight		kg	11	.0	14.0	11.0		14.0			
Packing 3	Material						Plastic					
Facking 5			1		F	0.6			0.0			
c ·	Weight		kg	0	.5	0.6	0.5		0.6			
Casing	Colour						Daikin White					
	Material					Painted	galvanized ste	eel plate				
Heat exchanger	Туре						Cross fin coil					
	Indoor sid	de					Air					
	Outdoor	side					Air					
	Air flow	Cooling Rated	m³/h	10,500	11,100	15,600	9,720	13,380	15,060	15,660		
	rate	Heating Rated	m³/h	10,500	11,100	15,600	9,720	13,380	15,060	15,660		
Fan	Quantity	neuting nated	,		1	2	1	13,500	2	13,000		
	External static pressure	Max.	Ра				78	1				
Fan motor	Quantity				1	2	1		2			
					•	2	DC motor	1	2			
	Туре		14/		50	75.0			750			
C	Output		W		50	750	550		750			
Compressor	Quantity				1	2	1		2			
	Туре					Hermeticall	y sealed scroll	compressor				
	Crankcase	e heater	W		33							
Operation range	Cooling	Min.	°CDB				-5.0					
-	-	Max.	°CDB				43.0					
	Heating						-20.0					
	g			i			15.5					
Sound power level	Cooling	Nom.	dBA	79.1 (4)	83.4 (4)	85.6 (4)	78.0 (4)	80.9 (4)	83.8 (4)	87.9 (4)		
Sound power level												
	Heating Cooling	Prated,h Nom.	dBA dBA	80.9 (4) 57.0 (5)	83.5 (4) 61.0 (5)	86.5 (4) 63.0 (5)	79.6 (4) 57.0 (5)	83.1 (4) 60.0 (5)	85.3 (4) 62.0 (5)	89.8 (4) 65.0 (5)		
Sound pressure							R-410A					
evel	Туре			1								
evel	Type GWP											
level Refrigerant	GWP		TCO2Fa	12 5	12.2	23.6	2,087.5	21.5	24.4	24.6		
evel			TCO2Eq kg	12.5 6.0	13.2 6.3	23.6 11.3		21.5 10.3	24.4 11.7	24.6 11.8		

2 - 1 Specifications

Technical spe			uie		RYMQ10U	RYMQ120	RYMQ16U			RYMQ18U	RYMQ20
ping connection	is Liquid	Type OD			9.52	1	2.7	raze connectio 9.52	n 12.7	10	5.9
	Gas	Туре		mm	9.52			9.52 raze connectio		10	.9
		OD		mm	22.2	2	8.6	19.1		28.6	
	Equaliz-	Туре					В	raze connectio			
	ing	OD		mm		22.2		19.1	22.2	28	3.6
	Total piping length	System	Actual	m				1,000 (6)			
efrost method								Reversed cycle			
apacity control	Method							verter controlle			
dication if the he	eater is equi	pped with	a suppleme	ntary heater				no			
upplementary eater	Back-up capacity	Heating	elbu	kW				0.0			
ower consump-	Crank-	Cooling	PCK	kW				0.000			
on in other than ctive mode	case heater mode	Heating	РСК	kW	0.0	052	0.077	0.052	0.077	0.0	189
	Off mode	Cooling	POFF	kW	0.0	041	0.074	0.041	0.074	0.0)75
		Heating	POFF	kW		052	0.077	0.052	0.077)89
	Standby	Cooling	PSB	kW		041	0.074	0.041	0.074)75
	mode	Heating	PSB	kW		052	0.077	0.052	0.077		189
	Thermo-	Cooling	PTO	kW		005	0.010	0.005		0.010	
	stat-off mode	Heating	PTO	kW	0.0	056	0.097	0.056	0.097	0.0	98
poling	Cdc (Degr							0.25			
eating	Cdh (Degi	radation h	eating)					0.25			
fety devices	Item	01						jh pressure swi			
		02						ver overload pr			
		03					Invert	er overload pro			
					-						
		04						PC board fuse			
							Leaka	PC board fuse age current det			
lectrical spe	cificatio	04 05	ule		RYMO10U	RYMO12U		age current det	ector	RYMO18U	RYMO20
	cificatio	04 05	ule		RYMQ10U	RYMQ12U	Leaka	age current det	ector	RYMQ18U	RYMQ20
		04 05	ule		RYMQ10U	RYMQ12U		age current det	ector	RYMQ18U	RYMQ2
	Name	04 05 ns Mod	ule	Hz	RYMQ10U	RYMQ12U		age current det RYMQ8U Y1	ector	RYMQ18U	RYMQ20
	Name Phase	04 05 ns Mod	ule	Hz V	RYMQ10U	RYMQ12U	RYMQ16U	RYMQ8U Y1 3N~ 50 380-415	ector	RYMQ18U	RYMQ20
ower supply	Name Phase Frequency Voltage	04 05 ns Mod	ule	V	RYMQ10U	RYMQ12U	RYMQ16U	RYMQ8U Y1 3N~ 50	ector	RYMQ18U	RYMQ20
ower supply	Name Phase Frequency Voltage	04 05 ns Mod	ule	V %	RYMQ10U	RYMQ12U	RYMQ16U	RYMQ8U Y1 3N~ 50 380-415 door and outdo -10	ector	RYMQ18U	RYMQ20
ower supply	Name Phase Frequency Voltage ke Min. Max.	04 05 ns Mod	ule	V % %			RYMQ16U Both in	RYMQ8U Y1 3N~ 50 380-415 door and outdo -10 10	RYMQ14U		
ower supply ower supply intal oltage range	Name Phase Frequency Voltage ke Min. Max.	04 05 ns Mod	ule	V %	RYMQ10U RYMQ10U 10.2 (7)	RYMQ12U 12.7 (7)	RYMQ16U	RYMQ8U Y1 3N~ 50 380-415 door and outdo -10	ector	RYMQ18U 20.8 (7)	RYMQ20 26.9 (7)
ower supply ower supply intal oltage range urrent	Name Phase Frequency Voltage ke Min. Max. Nominal running current	04 05 ns Mod y Cooling		V % %			RYMQ16U Both in	RYMQ8U Y1 3N~ 50 380-415 door and outdo -10 10	RYMQ14U		
ower supply ower supply intal oltage range urrent	Name Phase Frequency Voltage ke Min. Max. Nominal running current (RLA)	04 05 ns Mod y Cooling Combina tion A	- Cooling	V % %			RYMQ16U Both in	RYMQ8U Y1 3N~ 50 380-415 door and outdo -10 10	RYMQ14U		
ower supply ower supply intal oltage range urrent	Name Phase Frequency Voltage ke Min. Max. Nominal running current (RLA) Nominal running current (RLA) Starting c	04 05 ns Mod y Cooling Combina tion A Combina tion B urrent (MS	- Cooling	V % %			Both in 18.0 (7)	RYMQ8U Y1 3N~ 50 380-415 door and outde -10 10 7.2 (7) - See note 8	por unit 15.4 (7)		
ower supply ower supply intal oltage range urrent	Name Phase Frequency Voltage ke Min. Max. Nominal running current (RLA) Nominal running current (RLA) Starting c Zmax	04 05 ns Mod y Cooling Combina tion A Combina tion B urrent (MS List	- Cooling - Cooling	V % A	10.2 (7)	12.7 (7)	RYMQ16U Both in 18.0 (7)	Age current det RYMQ8U Y1 3N~ 50 380-415 door and outdo -10 10 7.2 (7) - See note 8 lo requirement	rector RYMQ14U Door unit 15.4 (7)	20.8 (7)	26.9 (7)
ower supply ower supply intal oltage range urrent	Name Phase Frequency Voltage ke Max. Nominal running current (RLA) Nominal running current (RLA) Starting c Zmax Minimum	04 05 ns Mod y Cooling Combina tion A Combina tion B urrent (MS List Ssc value	- Cooling - Cooling 5C) - remark	V % A A	10.2 (7)	6,038 (8)	Both in Both in 18.0 (7)	Age current det RYMQ8U Y1 3N~ 50 380-415 door and outdo -10 10 7.2 (7) - See note 8 lo requirement 4,050 (8)	ector RYMQ14U boor unit 15.4 (7) :s 6,793 (8)	20.8 (7)	26.9 (7) 9,812 (8)
ower supply ower supply intal oltage range urrent	Name Phase Frequency Voltage ke Min. Max. Nominal running current (RLA) Nominal running current (RLA) Starting c Zmax Minimum	04 05 ns Mod y Cooling Combina tion A Combina tion B urrent (MS List Ssc value circuit am	- Cooling - Cooling GC) - remark	V % A A kVa A	10.2 (7) 10.2 (7) 5,535 (8) 22.0 (9)	12.7 (7) 6,038 (8) 24.0 (9)	RYMQ16U Both in 18.0 (7) 18.0 (7) 7,547 (8) 31.0 (9)	Age current det RYMQ8U Y1 3N~ 50 380-415 door and outdo -10 10 7.2 (7) - See note 8 lo requirement 4,050 (8) 16.1 (9)	ector RYMQ14U bor unit 15.4 (7) :s 6,793 (8) 27.0 (9)	20.8 (7) 8,805 (8) 35.0 (9)	26.9 (7) 9,812 (8) 39.0 (9)
wer supply wer supply intal litage range irrent	Name Phase Frequency Voltage ke Min. Max. Nominal running current (RLA) Nominal running current (RLA) Starting c Zmax Minimum Maximum	04 05 ns Mod y Cooling Combina tion A Combina tion B urrent (MS List Ssc value circuit am	- Cooling - Cooling GC) - remark	V % A A kVa A A	10.2 (7) 10.2 (7) 5,535 (8) 22.0 (9) 25 (10)	12.7 (7) 6,038 (8) 24.0 (9) 32 (10)	Both in Both in 18.0 (7) 7,547 (8) 31.0 (9) 40 (10)	Age current det RYMQ8U Y1 3N~ 50 380-415 door and outdo -10 10 7.2 (7) - See note 8 lo requirement 4,050 (8) 16.1 (9) 20 (10)	ector RYMQ14U bor unit 15.4 (7) 15.4 (7) 5 6,793 (8) 27.0 (9) 32 (10)	20.8 (7) 8,805 (8) 35.0 (9) 40 (10)	26.9 (7) 9,812 (8) 39.0 (9) 50 (10)
ower supply ower supply intal oltage range urrent	Name Phase Frequency Voltage ke Min. Max. Nominal running current (RLA) Nominal running current (RLA) Starting c Zmax Minimum Minimum Maximum Full load amps	04 05 ns Mod y Cooling Combina tion A Combina tion B urrent (MS List Ssc value circuit am	- Cooling - Cooling GC) - remark	V % A A kVa A	10.2 (7) 10.2 (7) 5,535 (8) 22.0 (9)	12.7 (7) 6,038 (8) 24.0 (9)	RYMQ16U Both in 18.0 (7) 18.0 (7) 7,547 (8) 31.0 (9)	Age current det RYMQ8U Y1 3N~ 50 380-415 door and outdo -10 10 7.2 (7) - See note 8 lo requirement 4,050 (8) 16.1 (9)	ector RYMQ14U bor unit 15.4 (7) :s 6,793 (8) 27.0 (9)	20.8 (7) 8,805 (8) 35.0 (9) 40 (10)	26.9 (7) 9,812 (8) 39.0 (9)
ower supply intal oltage range urrent urrent - 50Hz	Name Phase Frequency Voltage ke Min. Max. Nominal running current (RLA) Starting c Zmax Minimum Minimum Maximum Full load amps (FLA)	04 05 ns Mod y Cooling Combina tion A Combina tion B urrent (MS List Ssc value circuit am fuse amp Total	- Cooling - Cooling GC) - remark aps (MCA) s (MFA)	V % A A kVa A A A A A	10.2 (7) 10.2 (7) 5,535 (8) 22.0 (9) 25 (10)	12.7 (7) 6,038 (8) 24.0 (9) 32 (10)	Both in Both in 18.0 (7) 7,547 (8) 31.0 (9) 40 (10)	Age current det RYMQ8U Y1 3N~ 50 380-415 door and outdet -10 10 7.2 (7) - See note 8 Io requirement 4,050 (8) 16.1 (9) 20 (10) 1.2 (11)	ector RYMQ14U bor unit 15.4 (7) 15.4 (7) 5 6,793 (8) 27.0 (9) 32 (10)	20.8 (7) 8,805 (8) 35.0 (9) 40 (10)	26.9 (7) 9,812 (8) 39.0 (9) 50 (10)
ower supply intal oltage range urrent urrent - 50Hz	Name Phase Frequency Voltage ke Min. Max. Nominal running current (RLA) Starting c Zmax Minimum Maximum Full load amps (FLA) Power	04 05 ns Mod y Cooling Combina tion A Combina tion B urrent (MS List Ssc value circuit am fuse amp Total Combina	- Cooling - Cooling GC) - remark ps (MCA) s (MFA) - 35°C ISO - F	V % A A A kVa A A A A Sull load	10.2 (7) 10.2 (7) 5,535 (8) 22.0 (9) 25 (10)	12.7 (7) 6,038 (8) 24.0 (9) 32 (10)	Both in Both in 18.0 (7) 7,547 (8) 31.0 (9) 40 (10)	Age current det RYMQ8U Y1 3N~ 50 380-415 door and outdo -10 10 7.2 (7) - See note 8 lo requirement 4,050 (8) 16.1 (9) 20 (10)	ector RYMQ14U bor unit 15.4 (7) 15.4 (7) 5 6,793 (8) 27.0 (9) 32 (10)	20.8 (7) 8,805 (8) 35.0 (9) 40 (10)	26.9 (7) 9,812 (8) 39.0 (9) 50 (10)
ower supply intal ower supply intal oltage range urrent urrent - 50Hz ower Perfor- ance	Name Phase Frequency Voltage ke Min. Max. Nominal running current (RLA) Starting c Zmax Minimum Maximum Full Ioad amps (FLA) Power factor	04 05 ns Mod y Cooling Combina tion A Combina tion B urrent (MS List Ssc value circuit am fuse amp Total Combina tion B	- Cooling - Cooling GC) - remark - S (MCA) - 35°C ISO - F 46°C ISO - F	V % A A A kVa A A A A Sull load	10.2 (7) 10.2 (7) 5,535 (8) 22.0 (9) 25 (10)	12.7 (7) 6,038 (8) 24.0 (9) 32 (10)	Both in Both in 18.0 (7) 7,547 (8) 31.0 (9) 40 (10)	Age current det RYMQ8U Y1 3N~ 50 380-415 door and outdo -10 10 7.2 (7) - See note 8 lo requirement 4,050 (8) 16.1 (9) 20 (10) 1.2 (11) - -	ector RYMQ14U bor unit 15.4 (7) 15.4 (7) 5 6,793 (8) 27.0 (9) 32 (10)	20.8 (7) 8,805 (8) 35.0 (9) 40 (10)	26.9 (7) 9,812 (8) 39.0 (9) 50 (10)
Electrical spe ower supply ower supply intal oltage range urrent urrent - 50Hz ower Perfor- iance comer Perfor- iance iring connec- ons - 50Hz	Name Phase Frequency Voltage ke Max. Nominal running current (RLA) Nominal running current (RLA) Starting c Zmax Minimum Maximum Full load amps (FLA) Power factor For power	04 05 ns Mod y Cooling Combina tion A Combina tion B urrent (MS List Ssc value circuit am fuse amp Total Combina	- Cooling - Cooling GC) - remark - S (MCA) - 35°C ISO - F 46°C ISO - F	V % A A A kVa A A A A Sull load	10.2 (7) 10.2 (7) 5,535 (8) 22.0 (9) 25 (10)	12.7 (7) 6,038 (8) 24.0 (9) 32 (10)	Both in Both in 18.0 (7) 7,547 (8) 31.0 (9) 40 (10)	Age current det RYMQ8U Y1 3N~ 50 380-415 door and outdet -10 10 7.2 (7) - See note 8 Io requirement 4,050 (8) 16.1 (9) 20 (10) 1.2 (11)	ector RYMQ14U bor unit 15.4 (7) 15.4 (7) 5 6,793 (8) 27.0 (9) 32 (10)	20.8 (7) 8,805 (8) 35.0 (9) 40 (10)	26.9 (7) 9,812 (8) 39.0 (9) 50 (10)
ower supply intal oltage range urrent urrent - 50Hz ower Perfor- ance iring connec-	Name Phase Frequency Voltage ke Min. Max. Nominal running current (RLA) Nominal running current (RLA) Starting c Zmax Minimum Maximum Full load amps (FLA) Power factor For power supply	04 05 ns Mod y Cooling Combina tion B Combina tion B Combina tios B Combina tios amp Total Combina fuse amp Total	- Cooling - Cooling GC) - remark - S (MCA) - 35°C ISO - F 46°C ISO - F	V % A A A kVa A A A A Sull load	10.2 (7) 10.2 (7) 5,535 (8) 22.0 (9) 25 (10)	12.7 (7) 6,038 (8) 24.0 (9) 32 (10)	Both in Both in 18.0 (7) 7,547 (8) 31.0 (9) 40 (10)	Age current det RYMQ8U Y1 3N~ 50 380-415 door and outdo -10 7.2 (7) - See note 8 lo requirement 4,050 (8) 16.1 (9) 20 (10) 1.2 (11) - - 5G	ector RYMQ14U bor unit 15.4 (7) 15.4 (7) 5 6,793 (8) 27.0 (9) 32 (10)	20.8 (7) 8,805 (8) 35.0 (9) 40 (10)	26.9 (7) 9,812 (8) 39.0 (9) 50 (10)
ower supply intal oltage range urrent urrent - 50Hz ower Perfor- bance	Name Phase Frequency Voltage ke Min. Max. Nominal running current (RLA) Nominal running current (RLA) Starting cc Zmax Minimum Maximum Full load amps (FLA) Power factor For power supply For	04 05 ns Mod y Cooling Combina tion B urrent (MS List Ssc value circuit am fuse amp Total Combina tion B urrent (MS List Ssc value circuit am fuse amp Total Quantity	- Cooling - Cooling GC) - remark - S (MCA) - 35°C ISO - F 46°C ISO - F	V % A A A kVa A A A A Sull load	10.2 (7) 10.2 (7) 5,535 (8) 22.0 (9) 25 (10)	12.7 (7) 6,038 (8) 24.0 (9) 32 (10)	Both in Both in 18.0 (7) 7,547 (8) 31.0 (9) 40 (10)	Arge current det RYMQ8U Y1 3N~ 50 380-415 door and outdo -10 10 7.2 (7) - - See note 8 lo requirement 4,050 (8) 16.1 (9) 20 (10) 1.2 (11) - - 5G 2	ector RYMQ14U bor unit 15.4 (7) 15.4 (7) 5 6,793 (8) 27.0 (9) 32 (10)	20.8 (7) 8,805 (8) 35.0 (9) 40 (10)	26.9 (7) 9,812 (8) 39.0 (9) 50 (10)
ower supply intal oltage range urrent urrent - 50Hz ower Perfor- ance iring connec-	Name Phase Frequency Voltage ke Min. Max. Nominal running current (RLA) Nominal running current (RLA) Starting c Zmax Minimum Maximum Full load amps (FLA) Power factor For power supply	04 05 ns Mod y Cooling Combina tion B Combina tion B Combina tios B Combina tios amp Total Combina fuse amp Total	- Cooling - Cooling GC) - remark - S (MCA) - 35°C ISO - F 46°C ISO - F	V % A A A kVa A A A A Sull load	10.2 (7) 10.2 (7) 5,535 (8) 22.0 (9) 25 (10)	12.7 (7) 6,038 (8) 24.0 (9) 32 (10)	Both in Both in 18.0 (7) 7,547 (8) 31.0 (9) 40 (10)	Age current det RYMQ8U Y1 3N~ 50 380-415 door and outdo -10 7.2 (7) - See note 8 lo requirement 4,050 (8) 16.1 (9) 20 (10) 1.2 (11) - - 5G	ector RYMQ14U bor unit 15.4 (7) 15.4 (7) 5 6,793 (8) 27.0 (9) 32 (10)	20.8 (7) 8,805 (8) 35.0 (9) 40 (10)	26.9 (7) 9,812 (8) 39.0 (9) 50 (10)

(1)Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m | (2)Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m | (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)Sound power level is an absolute value that a sound source generates. | (5)Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings. | (6)Refer to refrigerant pipe selection or installation manual | (7)RLA is based on following conditions: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB | (8)In accordance with EN//EC 61000-3-12, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply wih Ssc ≥ minimum Ssc value | (9)MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current. |



2 - 1 **Specifications**

(10)MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). | (11)FLA means the nominal running current of the fan | MSC means the maximum current during start up of the compressor. This unit uses only inverter compressors. Starting current is always ≤ max. running current. |

Maximum allowable voltage range variation between phases is 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. | The AUTOMATIC ESEER value corresponds with normal VRV4 Heat Pump operation, taking into account advanced energy saving operation funcitonality (variable refrigerant temperature) |

The STANDARD ESEER value corresponds with normal VRV4 Heat Pump operation, not taking into account advanced energy saving operation functionality | Sound values are measured in a semi-anechoic room.

Sound values are integrated in a semiratection for the formation of the semiratection of the phase |

2

SS: Short-circuit power | For detailed contents of standard accessories, see installation/operation manual | Multi combination (22~54HP) data is corresponding with the standard multi combination

3 3 - 1 Options

Options

				1		1	1		
No	Item		RXYQ8U RYYQ8U RXYQQ8U	RXYQ10-12U RYYQ10-12U RXYQQ10-12U	RXYQ14-18U RYYQ14-18U RXYQQ14-18U	RXYQ20U RYYQ20U RXYQQ20U	RYYQ22~54U RXYQ22~54U RXYQQ22~42U		
	Refnet header			1	KHRQ22M29I	1			
					KHRQ22M64I				
							Q22M75H		
II.	II. Refnet joint				KHRQ22M20				
				KHRQ22M29T9					
					KHRQ22M64		0000 4757		
Ш.	Outdoor multi-connection kit	See note ·2·.					Q22M75T BHFQ22P1007		
III. IV.	Outdoor multi-connection kit	See note ·2·.							
_		see note '2'.					BHFQ22P1517		
No	Item		8HP 10HP		14HP 16HP	18HP 20HP			
1a	Cool/heat selector (switch)	See note ·3·.		KRC19-26A					
1b	Cool/heat selector (PCB)				P2A81				
1c	Cool/heat selector (fixing box)				3111A				
2	VRV configurator				CCAB*				
3	Heater tape kit PCB		EKBPI	H012T7A	EKBPHO	20T7A			
4	Demand PCB	See		DTA10	4A61/62*				
5	Demand PCB mounting plate	See note ·4·.			KKSB2	5B1*			

1 All options are kits

2 . Only for multi units

3 To mount option $\cdot 1a$, option $\cdot 1c$ is required.

4 To install the demand PCB on the large casing type, the demand PCB mounting plate is required.

Medium casing type ·VRV4· heat pump: modules ·8~12·HP Large casing type ·VRV4· heat pump: modules ·14~20·HP

3D120006B



4 Combination table

4 - 1 Combination Table

REMQ5U REYQ8-20U RXYQQ8-20U RXYTQ8-16UYF RYYQ8-20U RYMQ8-20U
Jnit combination restrictions: VRV4 outdoor units (all models) + 15-class indoor units Inits in scope: FXZQ15A and FXAQ15A.
 In case the system contains these indoor units and the total connection ratio (CR) ≤ 100%: no special restrictions. Follow the restrictions that apply to regular VRV DX indoor units.
2. In case the system contains these indoor units and the total connection ratio (CR) > 100%: special restrictions apply.
A. When the connection ratio (CR1) of the sum of all FXZQ15A and/or FXAQ15A units in the system ≤ 70%, and ALL other VRV DX indoor units have an individual capacity class > 50: no special restrictions.
B. When the connection ratio (CR1) of the sum of all FXZQ15A and/or FXAQ15A units in the system ≤ 70%, and NOT ALL other VRV DX indoor units have an individual capacity class > 50: the restrictions below apply.
 100% < CR ≤ 105% → CR1 of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be ≤ 70%. 105% < CR ≤ 110% → CR1 of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be ≤ 60%. 110% < CR ≤ 115% → CR1 of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be ≤ 40%. 115% < CR ≤ 120% → CR1 of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be ≤ 25%. 120% < CR ≤ 125% → CR1 of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be ≤ 10%. 125% < CR ≤ 130% → FXZQ15A andFXAQ15A cannot be used
REMARK Only the 15-class indoor units explicitly mentioned on this page are in scope. Other indoor units follow the rules that apply to regular VRV DX indoor units. 3D104665
ΧΥQQ-U
XYQ-U Heat pump VRV4
YYQ-U Multi-unit standard combinations table
YMQ-U

Mod Day Kuku Day
But Office, / KuutOffice, / / / / / / / / / / / / / / / / / / /
But Office, / KuutOffice, / / / / / / / / / / / / / / / / / / /
But Office, / KuutOffice, / / / / / / / / / / / / / / / / / / /
BRUDDA / KAUDDA
BAUDIA: FANDDR: FANDDR: <t< th=""></t<>
Brudsh, Ikudosh, Ikudo
Bridge / Brid
BrudDs / KrudDs
8 mgu*/8mgu*/8mgu* 8mgu*
8 mgu*/8mgu*/8mgu* 8mgu*
5
E RXYQ32* / RYYQ32* / 2
87Q34*/87Q34*/87QQ34* 1 1 1
8 Except / strongas* / strongas* 1 1 1
RYQ13*/RYQ13*/RXYQ13* 1 1 1 1 1
2
8 KXG42*/KYXG42*/KXXG42* 1 2 2
BUDGH: 1 2 BUDGH: 1 2
s xrrqse*/ Krrqse* 1 2 -
8 RXTQ48* / RYTQ48* 3
8 RXYQ50* / RYYQ50* 2 1
RXYQ54* / RYYQ54* 3



4 Combination table

4 - 1 Combination Table

2 1 1	VRV4				
ຊ-ບ	Heat pump				
Q-U	Indoor unit com	bination restrictions			
—	(1/4)				(3)
	Indoor unit combination patte	ern VRV* DX indoor	unit RA DX indoor unit	Hydrobox unit	Air handling unit (AHU)
	VRV* DX indoor unit	0	0	0	0
	RA DX indoor unit Hydrobox unit	0	0 X	X 01	X X
	Air handling unit	(3) O	Х	X	02
O: Allow X: Not a					
<u>Notes</u>					
'RV* DX indoor i	unit				
	ning VRV DX indoor units with other types o <i>xample</i>	of indoor units, respect the following combin	nation patterns:		
		unit) or (VRV DX indoor unit + RA DX indoor u oor unit & (Hydrobox unit or AHU))] or [VRV I		oor unit or AHU))]	
0,					
- Only connect	Hydrobox units to a VRV IV Heat Pump in c to the connection ratio restrictions (3D079)				
→ Conne	ection with only Hydrobox units: refer to the Hydrobox units of the HXY* series.				
	* series Hydrobox units are not allowed.				
) ₂	of AHILophy I control how presses in	abination with VAV AV in Jac.	awadi mavimum 5410.6 400 - 0, 500 -	EVENI/Lit)	
→ X-con	trol is possible (up to 3x [EKEXV+EKEQFA* b	nbination with VRV DX indoor units is not allo poxes] can be connected to one outdoor unit	t (system)). No Variable Refrigerant Tempera	ture control possible.	
		poxes] can be connected to one outdoor unit boxes] can be connected to one outdoor un			
	of AHU only + control box EKEQMA (not co				
→ Z-con	trol is possible (the allowed number of [EKE	EXV + EKEQMA boxes] is determined by the c	connection ratio (90-110%) and the capacity	of the outdoor unit.	
	HU and VRV DX indoor units trol is possible (EKEQMA* boxes are allowed	d, but with a limited connection ratio).			
	of AHU with Hydrobox units or RA DX indoc				
	g units are considered AHUs:				
\rightarrow EKEXV	/ + EKEQ(MA/FA) + AHU coil				
	e air curtain 2_MF units				
nformation					
- VKIVI UNIUS and	e considered to be regular VRV DX indoor u	inits.			
ຊ-ບ ຊ-ບ					3D079543
					3D079543
ຊ-ບ		VRV4			3D079543
ຊ-ບ		Heat pump			3D079543
ຊ-ບ		Heat pump Indoor unit combination re	estrictions		3D079543
ຊ-ບ		Heat pump Indoor unit combination re	 I	RXYQ*	RXYQ*
ຊ-ບ		Heat pump Indoor unit combination re	estrictions RYYQ*	RXYQ* RXMLQ* RXVLQ*	
ຊ-ບ		Heat pump Indoor unit combination re	 I	RXMLQ* RXYLQ*	RXYQ* RXMLQ* RXYLQ*
ຊ-ບ	Combination table	Heat pump Indoor unit combination re ^(2/2) RYYQ* Single continuous heating	RYYQ* Multi continuous heating	RXMLQ* RXYLQ* Single non-continuous heating	RXYQ* RXMLQ* RXYLQ* Multi non-continuous heating
ຊ-ບ		Heat pump Indoor unit combination re (2/2) RYYQ* Single continuous heating 0	RYYQ* Multi continuous heating o	RXMLQ* RXYLQ* Single non-continuous heating 0	RXYQ* RXMLQ* RXYLQ* Multi non-continuous heating 0
ຊ-ບ	Combination table VRV* DX indoor unit	Heat pump Indoor unit combination re ^(2/2) RYYQ* Single continuous heating	RYYQ* Multi continuous heating	RXMLQ* RXYLQ* Single non-continuous heating	RXYQ* RXMLQ* RXYLQ* Multi non-continuous heating
ຊ-ບ	Combination table VRV* DX indoor unit RA DX indoor unit	Heat pump Indoor unit combination re ^(2/2) RYYQ* Single continuous heating 0 0	RYYQ* Multi continuous heating o x	RXMLQ* RXYLQ* Single non-continuous heating 0 0	RXYQ* RXMLQ* RXYLQ* Multi non-continuous heating 0 x
2-U Q-U	Combination table VRV* DX indoor unit RA DX indoor unit Hydrobox unit Air handling unit (AHU) (2)	Heat pump Indoor unit combination re ^(2/2) RYYQ* Single continuous heating 0 0 0	RYYQ* Multi continuous heating o x o ₁	RXMLQ* RXYLQ* Single non-continuous heating 0 0 0	RXYQ* RXMLQ* RXYLQ* Multi non-continuous heating 0 X 0
Q-U Q-U 	Combination table VRV* DX indoor unit RA DX indoor unit Hydrobox unit	Heat pump Indoor unit combination re ^(2/2) RYYQ* Single continuous heating 0 0 0	RYYQ* Multi continuous heating o x o ₁	RXMLQ* RXYLQ* Single non-continuous heating 0 0 0	RXYQ* RXMLQ* RXYLQ* Multi non-continuous heating 0 X 0
Q-U Q-U 	Combination table VRV* DX indoor unit RA DX indoor unit Hydrobox unit Air handling unit (AHU) (2) Allowed	Heat pump Indoor unit combination re ^(2/2) RYYQ* Single continuous heating 0 0 0	RYYQ* Multi continuous heating o x o ₁	RXMLQ* RXYLQ* Single non-continuous heating 0 0 0	RXYQ* RXMLQ* RXYLQ* Multi non-continuous heating 0 X 0
Q-U Q-U 	Combination table VRV* DX indoor unit RA DX indoor unit Hydrobox unit Air handling unit (AHU) (2) Allowed Not allowed	Heat pump Indoor unit combination re ^(2/2) RYYQ* Single continuous heating 0 0 0	RYYQ* Multi continuous heating o x o ₁	RXMLQ* RXYLQ* Single non-continuous heating 0 0 0	RXYQ* RXMLQ* RXYLQ* Multi non-continuous heating 0 X 0
Q-U Q-U 0: x: <u>Notes</u>	Combination table VRV* DX indoor unit RA DX indoor unit Hydrobox unit Air handling unit (AHU) (2) Allowed Not allowed	Heat pump Indoor unit combination re ^(2/2) RYYQ* Single continuous heating 0 0 0	RYYQ* Multi continuous heating o x o ₁	RXMLQ* RXYLQ* Single non-continuous heating 0 0 0	RXYQ* RXMLQ* RXYLQ* Multi non-continuous heating 0 X 0
Q-U Q-U 0: X: <u>Notes</u> 0 ₁	Combination table	Heat pump Indoor unit combination re ^(2/2) RYYQ* Single continuous heating 0 0 0 0	RYYQ* Multi continuous heating o x o ₁	RXMLQ* RXYLQ* Single non-continuous heating 0 0 0	RXYQ* RXMLQ* RXYLQ* Multi non-continuous heating 0 X 0
Q-U Q-U 0: X: <u>Notes</u> 0 ₁	Combination table VRV* DX indoor unit RA DX indoor unit Hydrobox unit Air handling unit (AHU) (2) Allowed Not allowed	Heat pump Indoor unit combination re ^(2/2) RYYQ* Single continuous heating 0 0 0 0	RYYQ* Multi continuous heating o x o ₁	RXMLQ* RXYLQ* Single non-continuous heating 0 0 0	RXYQ* RXMLQ* RXYLQ* Multi non-continuous heating 0 X 0
Q-U Q-U Q-U 0: x: <u>Notes</u> 0 ₁ - Availa (2) The fo	Combination table VRV* DX indoor unit RA DX indoor unit Hydrobox unit Air handling unit (AHU) Allowed Not allowed ble upon request through th	Heat pump Indoor unit combination re (2/2) RYYQ* Single continuous heating 0 0 0 0 0	RYYQ* Multi continuous heating o x o ₁	RXMLQ* RXYLQ* Single non-continuous heating 0 0 0	RXYQ* RXMLQ* RXYLQ* Multi non-continuous heating 0 X 0
Q-U Q-U 0: x: <u>Notes</u> 0 ₁ - Availa (2) The fo	Combination table VRV* DX indoor unit RA DX indoor unit Hydrobox unit Air handling unit (AHU) Allowed Not allowed ble upon request through th blowing units are considered EKEXV + EKEQ(MA/FA) + AHU	Heat pump Indoor unit combination re (2/2) RYYQ* Single continuous heating 0 0 0 0 0	RYYQ* Multi continuous heating o x o ₁	RXMLQ* RXYLQ* Single non-continuous heating 0 0 0	RXYQ* RXMLQ* RXYLQ* Multi non-continuous heating 0 X 0
Q-U Q-U Q-U 0: X: <u>Notes</u> 0 ₁ - Availa (2) The fo → →	Combination table VRV* DX indoor unit RA DX indoor unit Hydrobox unit Air handling unit (AHU) Allowed Not allowed ble upon request through th vilowing units are considered EKEXV + EKEQ(MA/FA) + AHU Biddle air curtain	Heat pump Indoor unit combination re (2/2) RYYQ* Single continuous heating 0 0 0 0 0	RYYQ* Multi continuous heating o x o ₁	RXMLQ* RXYLQ* Single non-continuous heating 0 0 0	RXYQ* RXMLQ* RXYLQ* Multi non-continuous heating 0 X 0
Q-U Q-U Q-U 0: X: <u>Notes</u> 0 ₁ - Availa (2) The fo → →	Combination table VRV* DX indoor unit RA DX indoor unit Hydrobox unit Air handling unit (AHU) Allowed Not allowed ble upon request through th blowing units are considered EKEXV + EKEQ(MA/FA) + AHU	Heat pump Indoor unit combination re (2/2) RYYQ* Single continuous heating 0 0 0 0 0	RYYQ* Multi continuous heating o x o ₁	RXMLQ* RXYLQ* Single non-continuous heating 0 0 0	RXYQ* RXMLQ* RXYLQ* Multi non-continuous heating 0 X 0
Q-U Q-U Q-U 0: X: <u>Notes</u> 0 ₁ - Availa (2) The fo → →	Combination table VRV* DX indoor unit RA DX indoor unit Hydrobox unit Air handling unit (AHU) Allowed Not allowed ble upon request through th vilowing units are considered EKEXV + EKEQ(MA/FA) + AHU Biddle air curtain	Heat pump Indoor unit combination re (2/2) RYYQ* Single continuous heating 0 0 0 0 0	RYYQ* Multi continuous heating o x o ₁	RXMLQ* RXYLQ* Single non-continuous heating 0 0 0	RXYQ* RXMLQ* RXYLQ* Multi non-continuous heating 0 X 0
Q-U Q-U Q-U 0: X: <u>Notes</u> 0 ₁ - Availa (2) The fo → →	Combination table VRV* DX indoor unit RA DX indoor unit Hydrobox unit Air handling unit (AHU) Allowed Not allowed ble upon request through th vilowing units are considered EKEXV + EKEQ(MA/FA) + AHU Biddle air curtain	Heat pump Indoor unit combination re (2/2) RYYQ* Single continuous heating 0 0 0 0 0	RYYQ* Multi continuous heating o x o ₁	RXMLQ* RXYLQ* Single non-continuous heating 0 0 0	RXYQ* RXMLQ* RXYLQ* Multi non-continuous heating 0 X 0
Q-U Q-U Q-U 0: X: <u>Notes</u> 0 ₁ - Availa (2) The fo → →	Combination table VRV* DX indoor unit RA DX indoor unit Hydrobox unit Air handling unit (AHU) Allowed Not allowed ble upon request through th vilowing units are considered EKEXV + EKEQ(MA/FA) + AHU Biddle air curtain	Heat pump Indoor unit combination re (2/2) RYYQ* Single continuous heating 0 0 0 0 0	RYYQ* Multi continuous heating o x o ₁	RXMLQ* RXYLQ* Single non-continuous heating 0 0 0	RXYQ* RXMLQ* RXYLQ* Multi non-continuous heating 0 X 0
Q-U Q-U Q-U 0: X: <u>Notes</u> 0 ₁ - Availa (2) The fo → →	Combination table VRV* DX indoor unit RA DX indoor unit Hydrobox unit Air handling unit (AHU) Allowed Not allowed ble upon request through th vilowing units are considered EKEXV + EKEQ(MA/FA) + AHU Biddle air curtain	Heat pump Indoor unit combination re (2/2) RYYQ* Single continuous heating 0 0 0 0 0	RYYQ* Multi continuous heating o x o ₁	RXMLQ* RXYLQ* Single non-continuous heating 0 0 0	RXYQ* RXMLQ* RXYLQ* Multi non-continuous heating 0 X 0



4 Combination table

4 - 1 Combination Table

RXYQ-U RYYQ-U

RYYQ-U RYMQ-U

Compatibility list: ·VRV4· heat pump - ·RA DX· indoor unit

		•
Wall mounted type	Emura	FTXI20A
wan mounted type	Emuru	FTXJ25A
		FTXJ25A
		FTXJ42A
		FTXJ50A
	Stylish	FTXA20
	Stynsh	FTXA25
		FTXA35
		FTXA42
		FTXA50
	FTXM	FTXM20R
		FTXM25R
		FTXM35R
		FTXM42R
		FTXM50R
		FTXM60R
		FTXM71R
Ceiling/wall mounted	Flex	FLXS25B
		FLXS35B
		FLXS50B
		FLXS60B
Floor standing type	FVXM	FVXM25F
		FVXM35F
		FVXM50F
		FVXM25A
		FVXM35A
		FVXM50A
	Nexura	CVXM20A FVXG25K
	wexuru	FVXG25K
		FVXG50K

<u>Remark</u>

The limitations on the use of •RA DX• indoor units with the •VRV4• Heat Pump are subject to the rules set out in drawings •3D079543• and •3D079540•.

If you want to connect ·RA·/·SA· ·DX· cassette, ceiling-mounted, or duct indoor units, use their ·VRV DX· indoor unit equivalents instead.

3D082373H

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:

<u>Capacity table database</u>: lets you find back and export quickly the capacity information you are looking for based upon unit model, refrigerant temperature and connection ratio.
 You can access the capacity table viewer here:

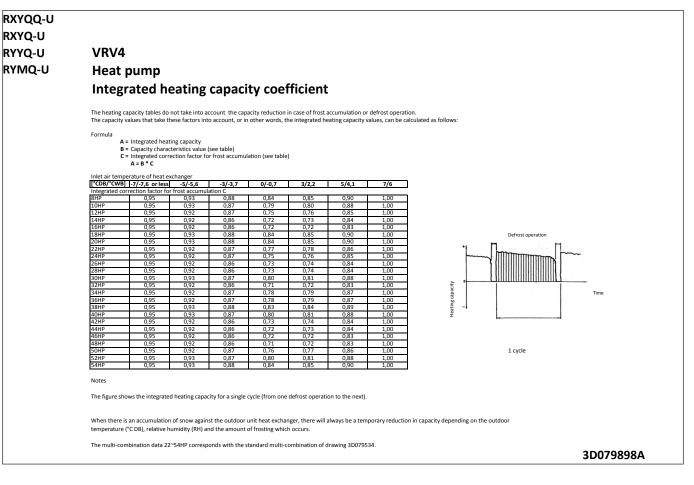
https://my.daikin.eu/content/denv/en_US/home/applications/software-finder/capacity-table-viewer.html



 An overview of <u>all software tools</u> that we offer can be found here: <u>https://my.daikin.eu/denv/en_US/home/applications/software-finder.html</u>

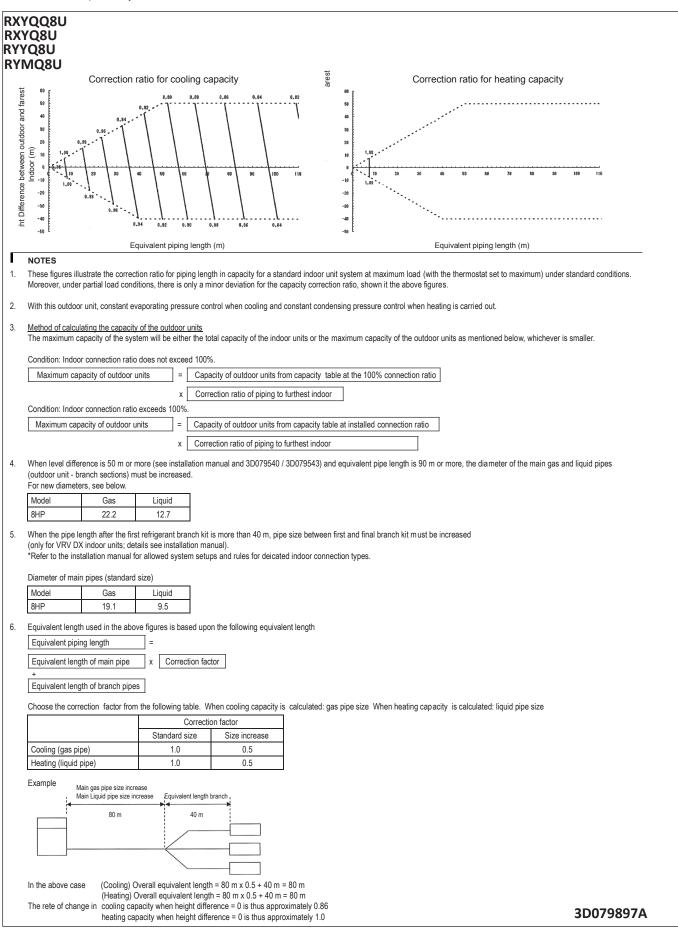


5 - 2 Capacity Correction Factor



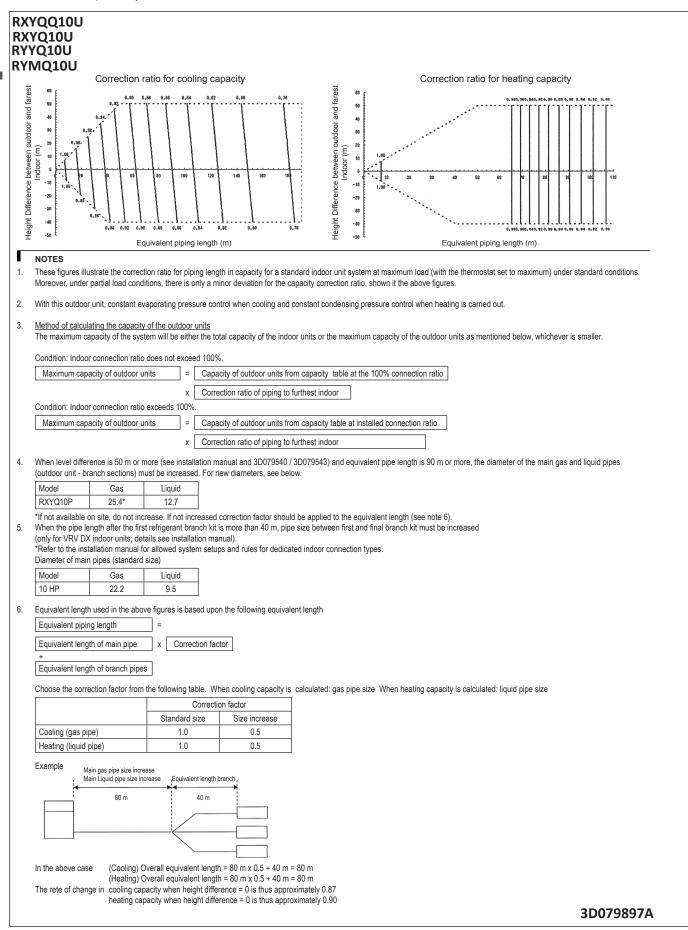
5

5 Capacity tables

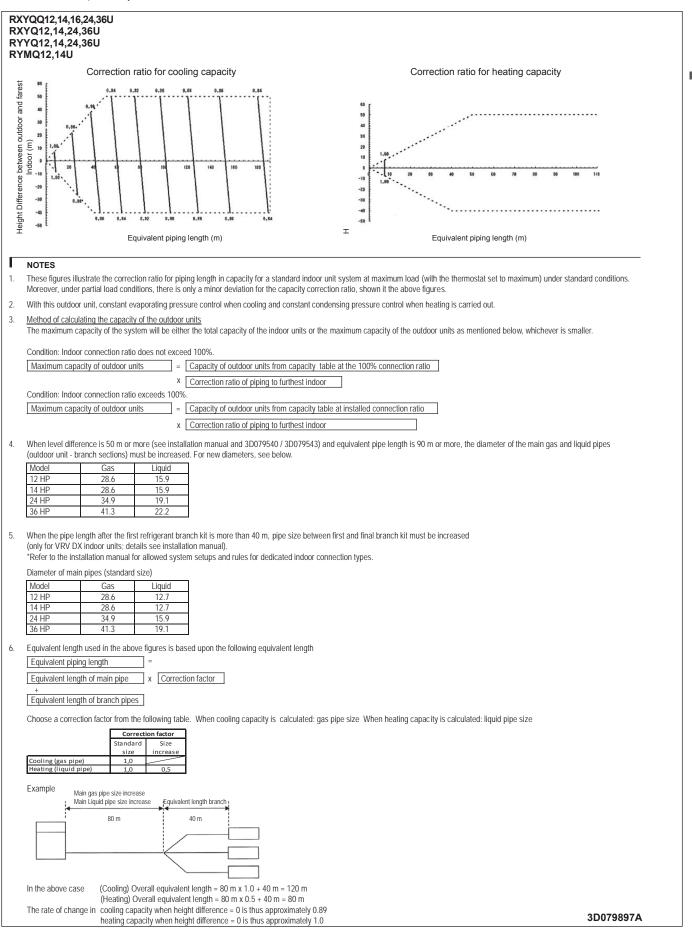


5 Capacity tables

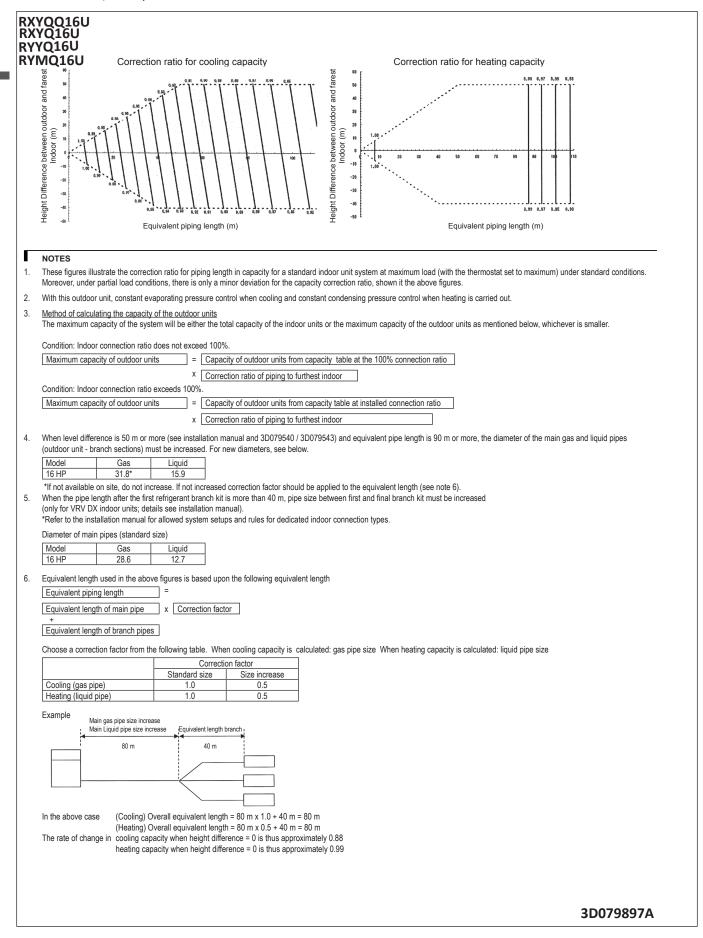
5 - 2 Capacity Correction Factor

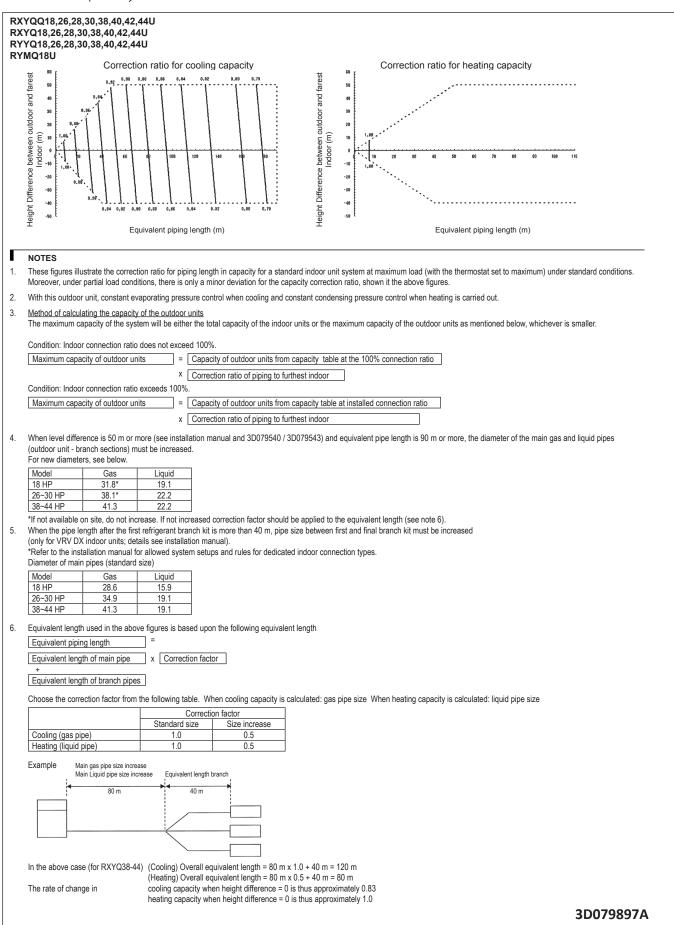


5 Capacity tables



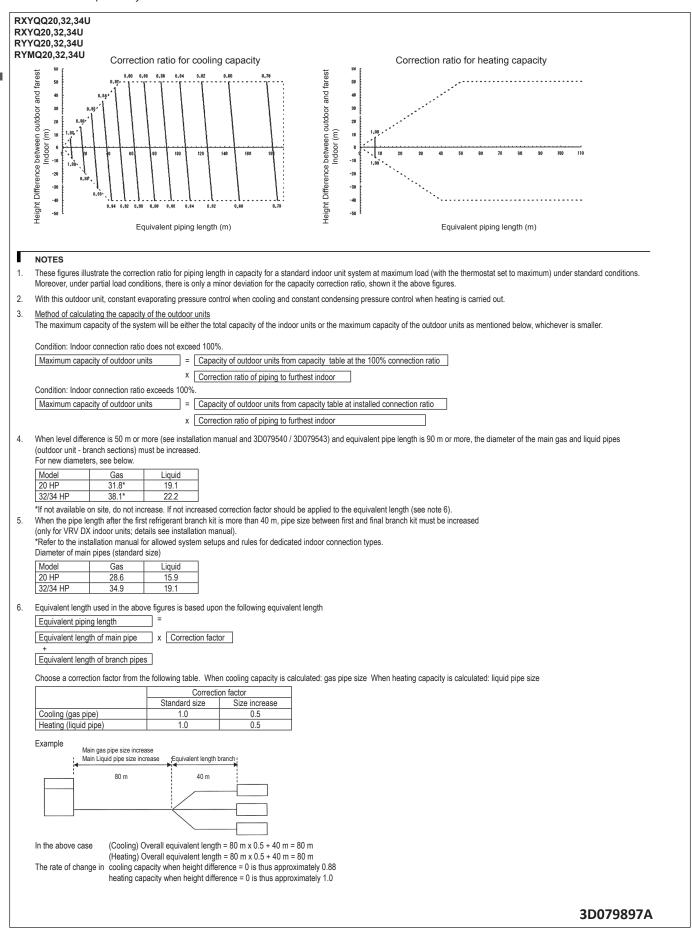
5 Capacity tables





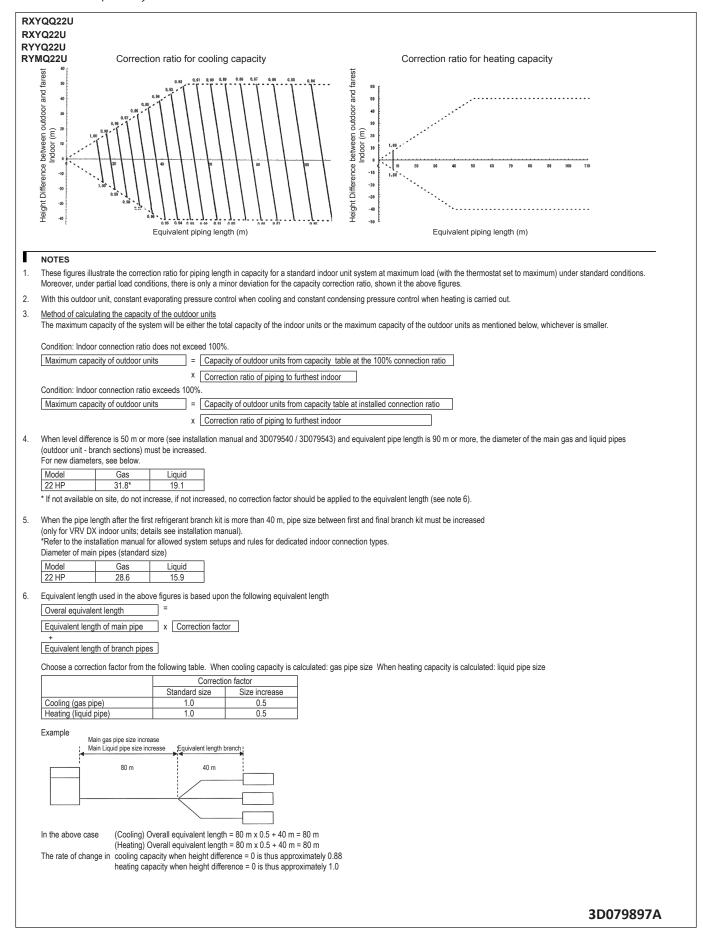


5 - 2 Capacity Correction Factor



30

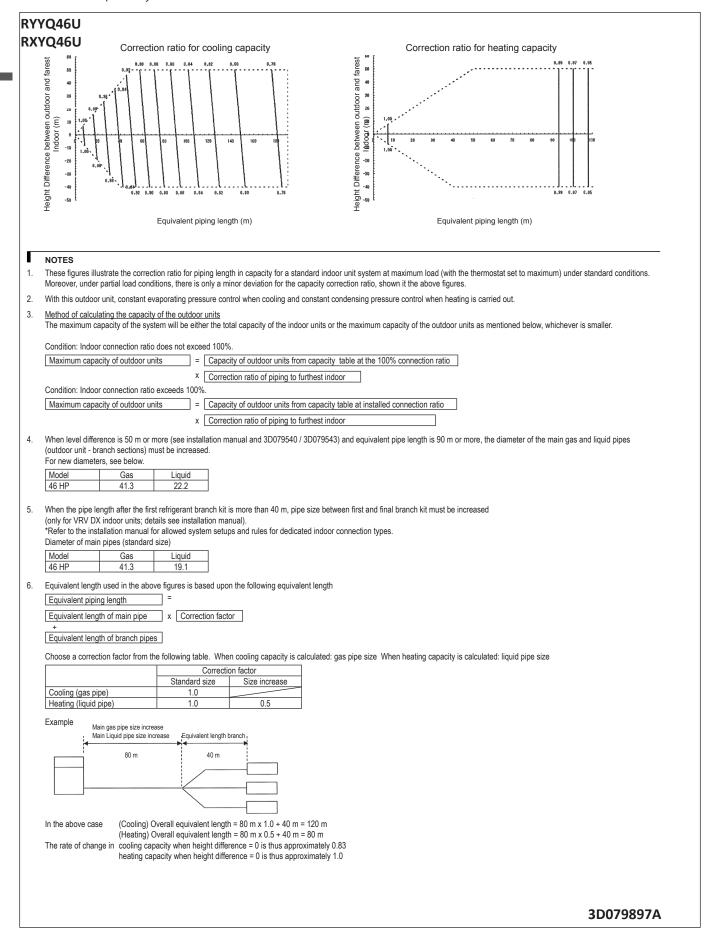
5 Capacity tables

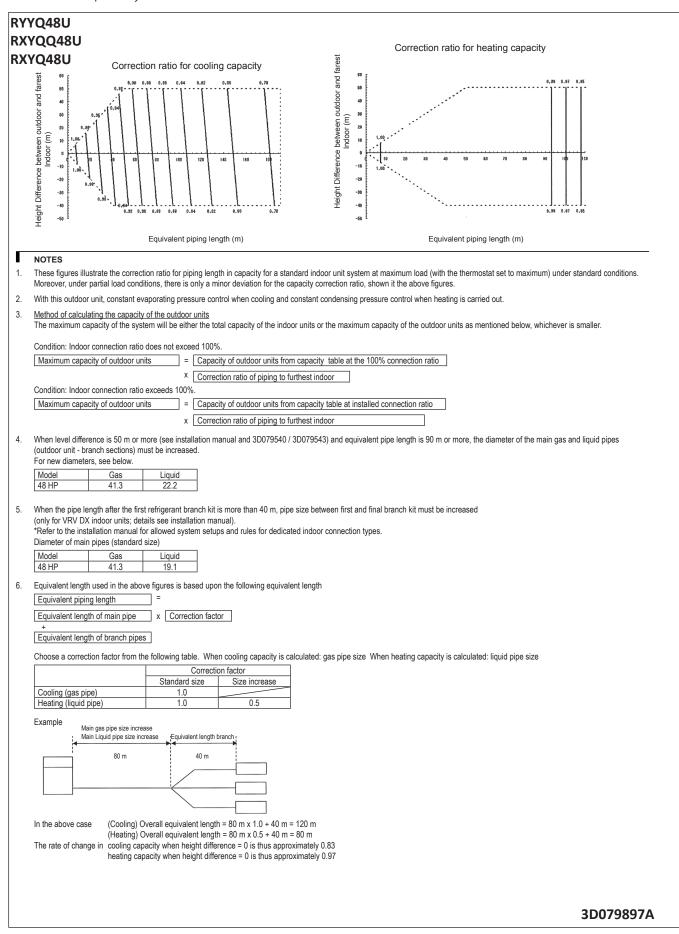




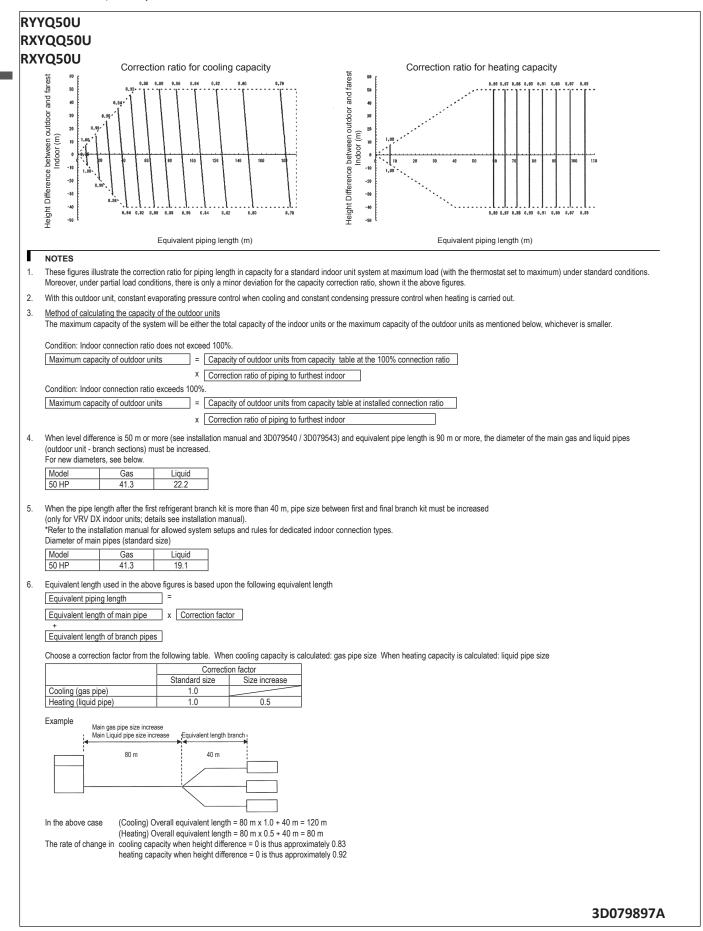
5 Capacity tables

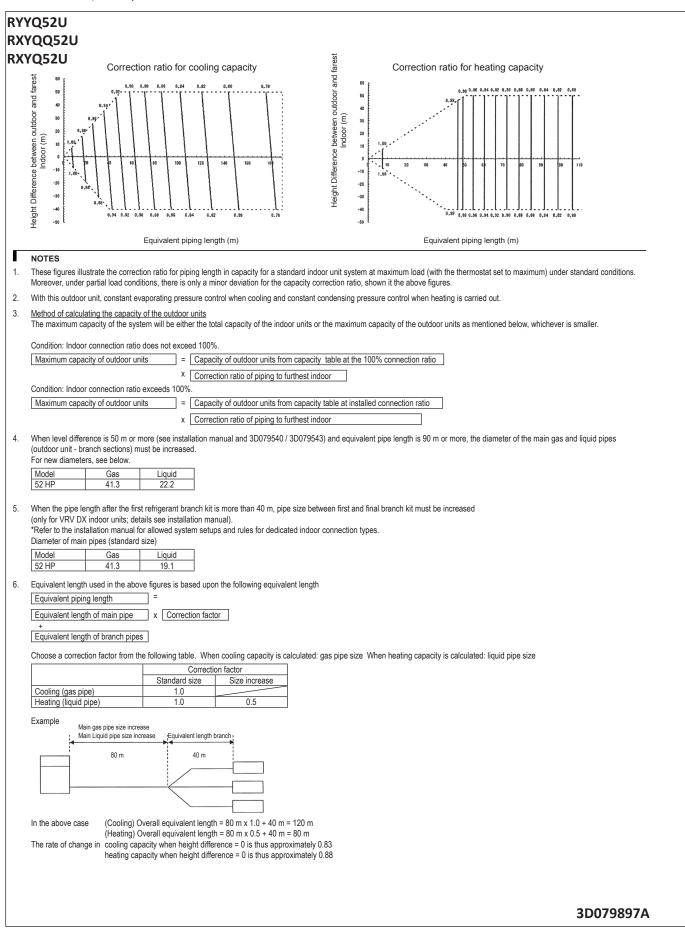
5 - 2 Capacity Correction Factor





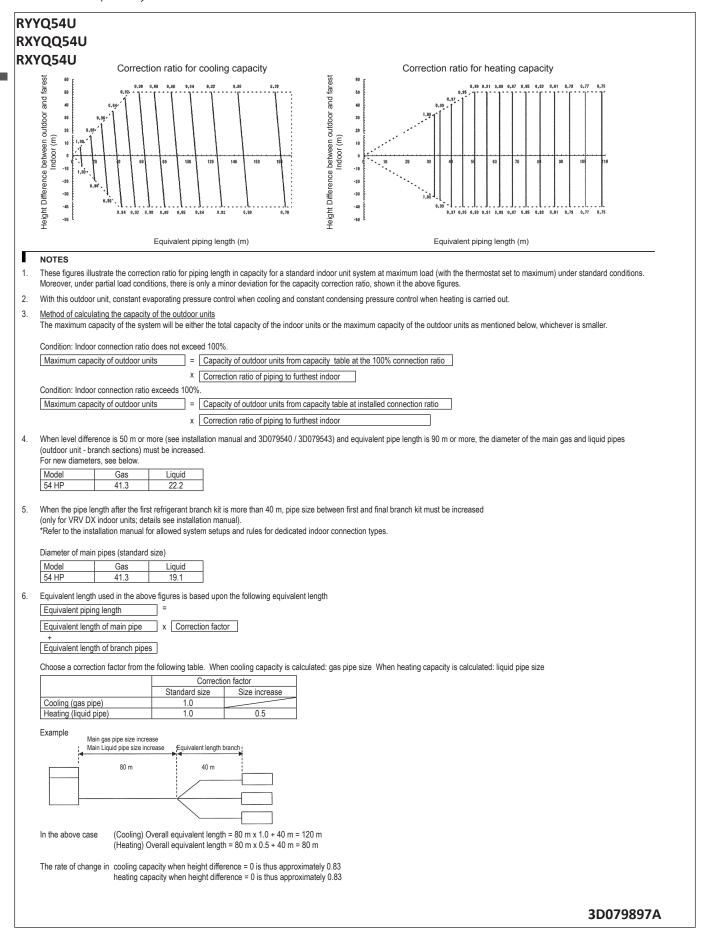
5 - 2 Capacity Correction Factor





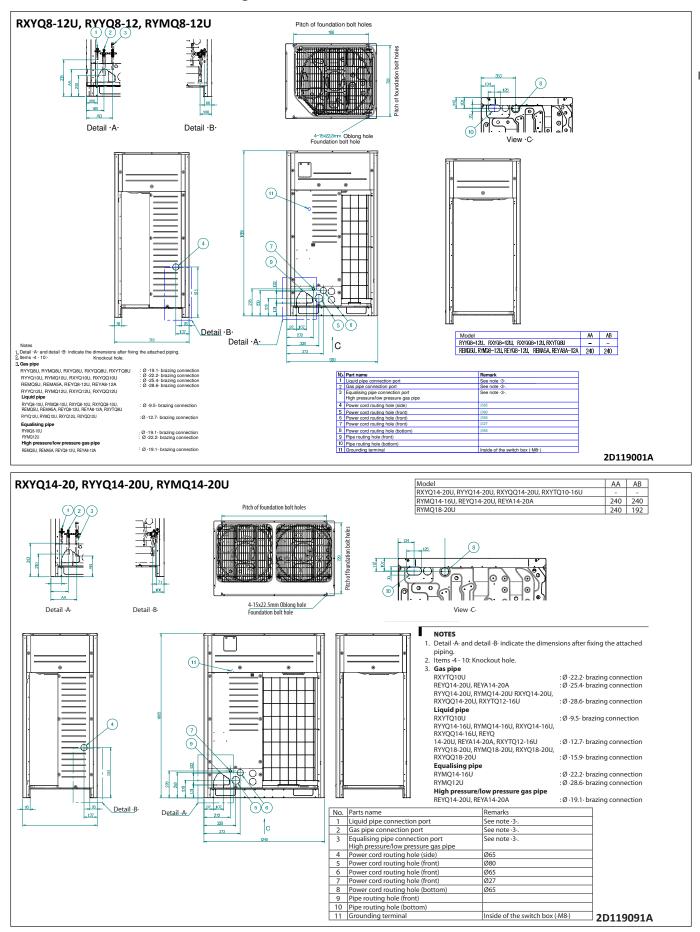


5 Capacity tables



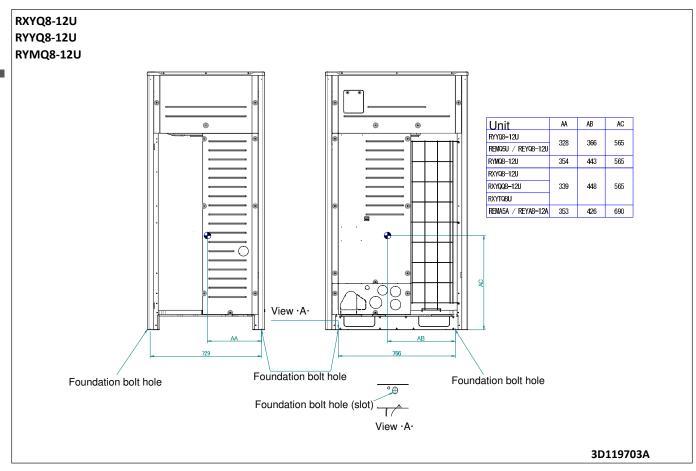
6 Dimensional drawings

6 - 1 Dimensional Drawings



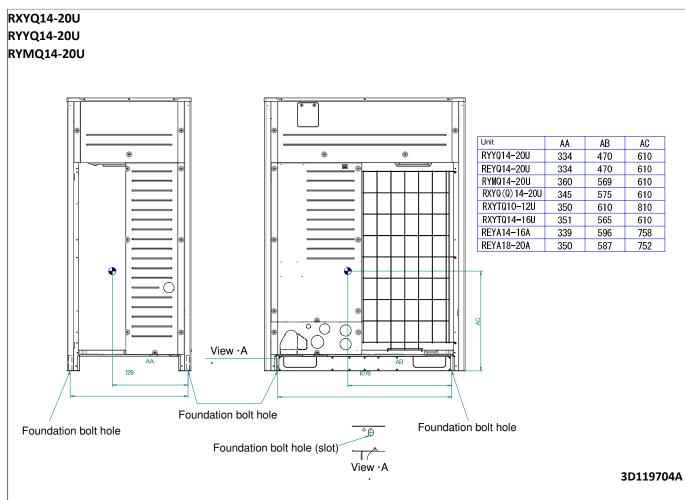
7 Centre of gravity

7 - 1 Centre of Gravity



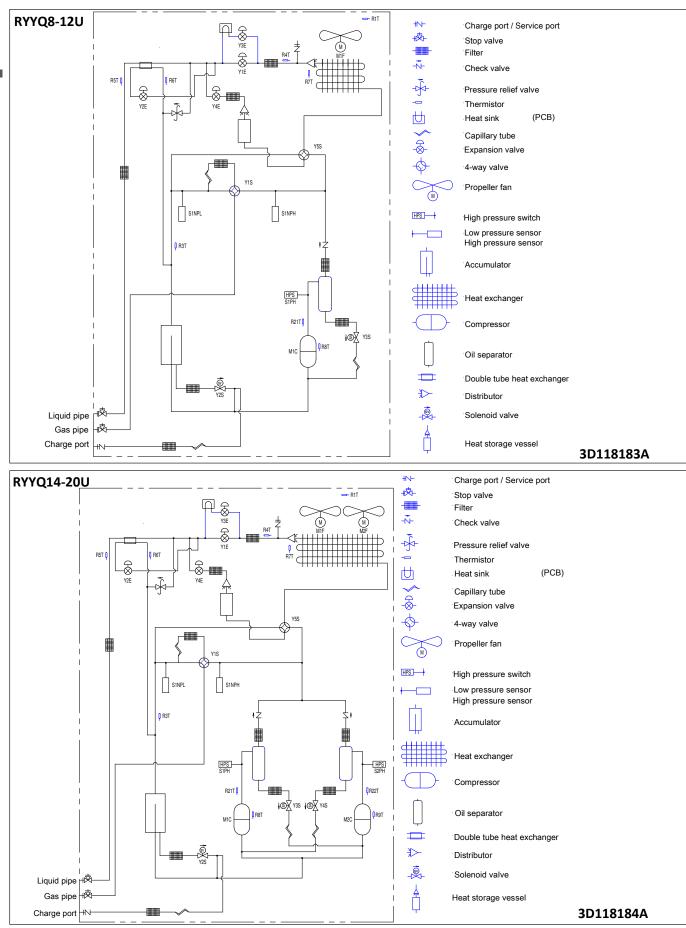
7 Centre of gravity

7 - 1 Centre of Gravity



8 Piping diagrams

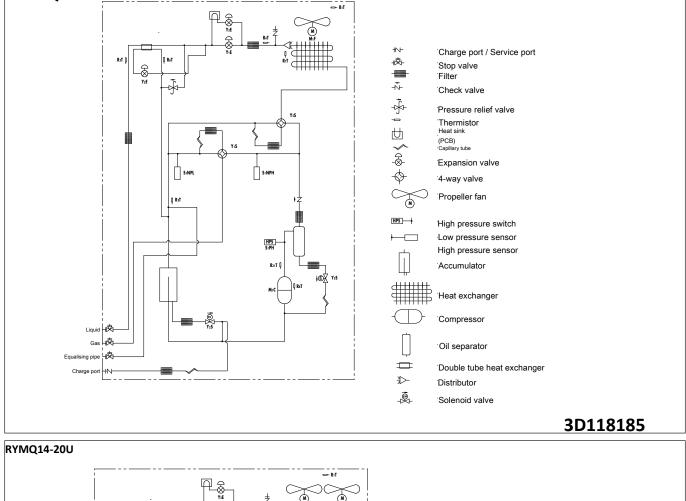
8 - 1 Piping Diagrams

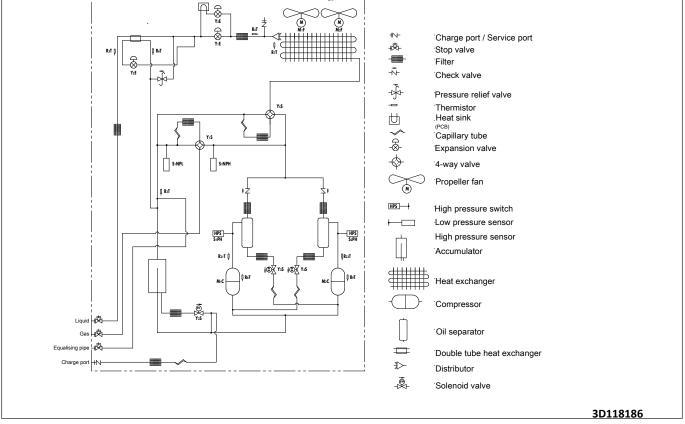


8 Piping diagrams

8 - 1 Piping Diagrams

RYMQ8-12U

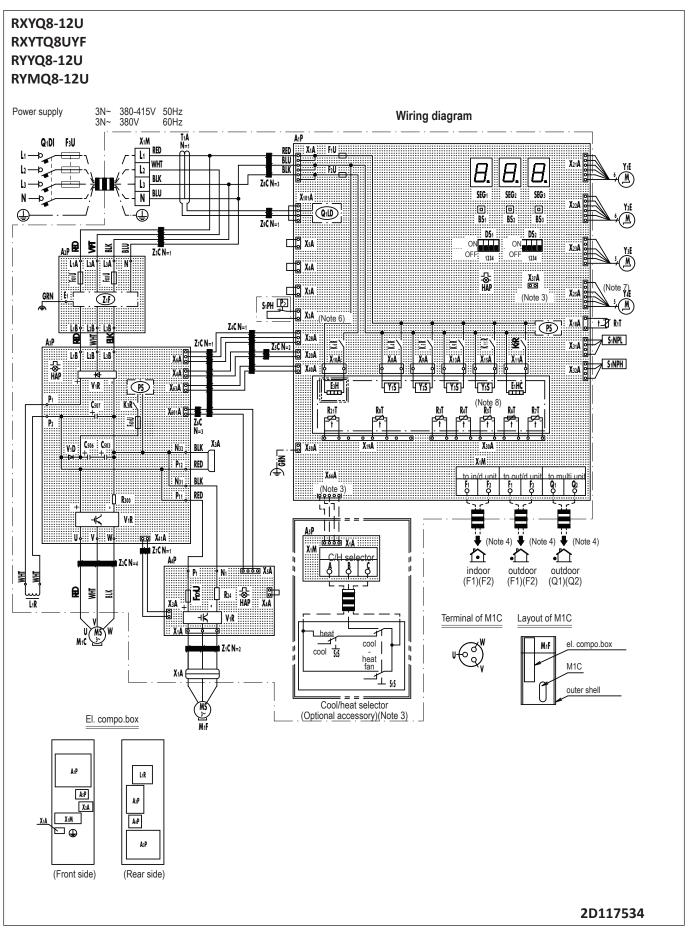






9 Wiring diagrams

9 - 1 Wiring Diagrams - Three Phase



9 Wiring diagrams

9 - 1 Wiring Diagrams - Three Phase

RXYQ8-12U RXYTQ8UYF RYYQ8-12U

RYMQ8-12U

A1P	Printed Circuit Board (Main)	R3T	Thermistor (Accumulator)
A2P	Printed Circuit Board (Noise Filter)	R4T	Thermistor (Heat Exc,Liq,Pipe)
A3P	Printed Circuit Board (Inv)	R5T	Thermistor (Subcool,Liq,Pipe)
A4P	Printed Circuit Board (Fan)	R6T	Thermistor (Heat Exc,Gas Pipe)
A5P	Printed Circuit Board (ABC I/P)(Option)	R7T	Thermistor (Heat Exc,Deicer)
BS1~3 (A1P)	Push Button Switch (Mode,Set,Return)	R8T	Thermistor (M1C body)
C503,C506,C507 (A3P)	Capacitor	R21T	Thermistor (M1C discharge)
DS1,DS2 (A1P)	DIP Switch	S1NPH	Pressure Sensor (High)
E1HC	Crankcase Heater	S1NPL	Pressure Sensor (Low)
E3H	Drainpan Heater (Option)	S1PH	Pressure Switch (Disch)
F1U,F2U (A1P)	Fuse (T,3,15A,250V)	SEG1~SEG3 (A1P)	7-Segment Display
F3U	Field Fuse	T1A	Current Sensor
F101U (A4P)	Fuse	V1D (A3P)	Diode
F401U,F403U (A2P)	Fuse	V1R (A3P,A4P)	Power Module
F601U (A3P)	Fuse	X*A	Connector
HAP (A1P,A3P, A4P)	Pilotlamp (Service Monitor-Green)	X1M (A1P)	Terminal Block (Control)
K3R (A3P)	Magnetic Relay	X1M (A5P)	Terminal Block (Power Supply)(Option)
K4R (A1P)	Magnetic Relay (Y1S)	Y1E	Electronic Expansion Valve(Main)
K5R (A1P)	Magnetic Relay (Y2S)	Y2E	Electronic Expansion Valve (Injection)
K6R (A1P)	Magnetic Relay (E3H)	Y3E	Electronic Expansion Valve (Refrigerant Jacket)
K7R (A1P)	Magnetic Relay (E1HC)	Y4E	Electronic Expansion Valve (Storage Vessel)
K9R (A1P)	Magnetic Relay (Y3S)	Y1S	Solenoid Valve (Main)
K11R (A1P)	Magnetic Relay (Y5S)	Y2S	Solenoid Valve (Accumulator Oil Return)
L1R	Reactor	Y3S	Solenoid Valve (Oil1)
M1C	Motor (Compressor)	Y5S	Solenoid Valve (Sub)
M1F	Motor (Fan)	Z*C	Noise Filter (Ferrite Core)
PS (A1P,A3P)	Switching Power Supply	Z*F (A2P)	Noise Filter (With Surge Absorber)
Q1DI	Field Earth Leakage Breaker	Co	nnector For Optional Accessories
Q1LD (A1P)	Field Earth Current Detector	X10A	Connector (Drainpan Heater)
R24 (A4P)	Resistor (Current Sensor)	X37A	Connector (Power Adapter)
R300 (A3P)	Resistor (Current Sensor)	X66A	Connector (Remote Switching
R1T	Thermistor (Air)	AUOA	Cool/Heat Selector)

NOTES

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

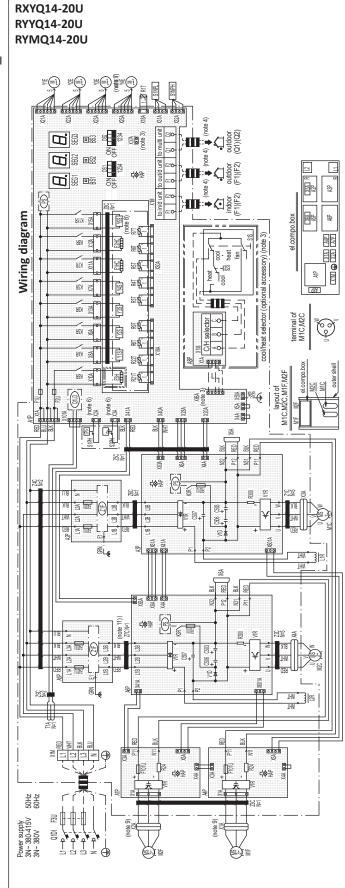
- 3. When using the optional adapter, refer to the installation manual of the optional adapter.
- 4. For connection wiring to indoor-outdoor transmission F1-F2, outdoor-outdoor transmission F1-F2, outdoor-multi transmission Q1-Q2, refer to the installation manual.
- 5. How to use BS1~3 switch. Refer to "service precaution" label on el. compo. box cover.
- 6. When operating, don't shortcircuit the protection devices (S1PH).
- 7. Only for RYYQ model.
- 8. Only for RYYQ/RYMQ model.
- 9. Colors: BLK: Black, RED: Red, BLU: Blue, WHT: White, GRN: Green.

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Wiring diagrams 9

9 - 1 Wiring Diagrams - Three Phase



A1P	Printed circuit board (main)
A2P, A5P	Printed circuit board (noise filter)
A3P, A6P	Printed circuit board (inv)
A4P, A7P	Printed circuit board (fan)
A8P	Printed circuit board (ABC I/P)
BS1~3 (A1P)	Push button switch (mode, set, return)
C503, C506, C507 (A3P, A6P)	Capacitor
DS1, DS2 (A1P)	Dip switch S1PH,
E1HC, E2HC	Crankcase heater
E3H	Drainpan heater (option)
F1U, F2U (A1P)	Fuse (T, 3, 15A, 250V)
F3U	Field fuse
F101U (A4P, A7P)	Fuse
F401U, F403U (A2P, A5P)	Fuse
F601U (A3P, A6P)	Fuse
HAP (A1P, A3P, A4P, A6P, A7P)	Pilotlamp (service monitor-green)
K3R (A3P, A6P)	Magnetic relay
K3R (A1P)	Magnetic relay (Y4S)
K4R (A1P)	Magnetic relay (Y1S)
K5R (A1P)	Magnetic relay (Y2S)
K6R (A1P)	Magnetic relay (E3H)
K7R (A1P)	Magnetic relay (E1HC)
K8R (A1P)	Magnetic relay (E2HC)
K9R (A1P)	Magnetic relay (Y3S)
K11R (A1P)	Magnetic relay (Y5S)
L1R, L2R	Reactor
M1C, M2C	Motor (compressor)
M1F, M2F	Motor (fan)
PS (A1P, A3P, A6P)	Switching power supply
	Field earth leakage breaker
Q1LD (A1P)	Field earth current detector
R24 (A4P, A7P)	Resistor (current sensor)
R300 (A3P, A6P)	Resistor (current sensor)
R1T	Thermistor (air)
R3T	Thermistor (accumulator)
R4T	Thermistor (heat exc, liq, pipe)
R5T R6T	Thermistor (subcool, liq, pipe) Thermistor (heat exc, gas pipe)
R7T	Thermistor (heat exc, gas pipe)
R8T, R9T	Thermistor (M1C, M2C body)
R21T, R22T	Thermistor (M1C, M2C body) Thermistor (M1C, M2C discharge)
S1NPH	Pressure sensor (high)
S1NPL	Pressure sensor (low)
S1PH, S2PH	Pressure switch (disch)
SEG1~SEG3 (A1P)	7-segment display
T1A	Current sensor
V1D (A3P, A6P)	Diode
V1R (A3P, A4P, A6P, A7P)	Power module
X*A	Connector
X1M (A1P)	Terminal block (control)
X1M (A8P)	Terminal block (control)
Y1E	Electronic expansion valve (main)
Y2E	Electronic expansion valve (injection)
Y3E	Electronic expansion valve (refrigerant jacket)
Y4E	Electronic expansion valve (storage vessel (note 7)
Y1S	Solenoid valve (main)
Y2S	Solenoid valve (accumulator oil return)
Y3S	Solenoid valve (oil1)
Y4S	Solenoid valve (oil2)
Y5S	Solenoid valve (sub) (note 8)
Z*C	Noise filter (ferrite core)
Z*F (A2P, A5P)	Noise filter (with surge absorber)
, <u> </u>	
Co	nnector for optional accessories
X10A	Connector (drainpan heater)
X37A	Connector (power adapter)
X66A	Connector (remote switching
	Cool/heat selector)
	COOI/Teal Selector)

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

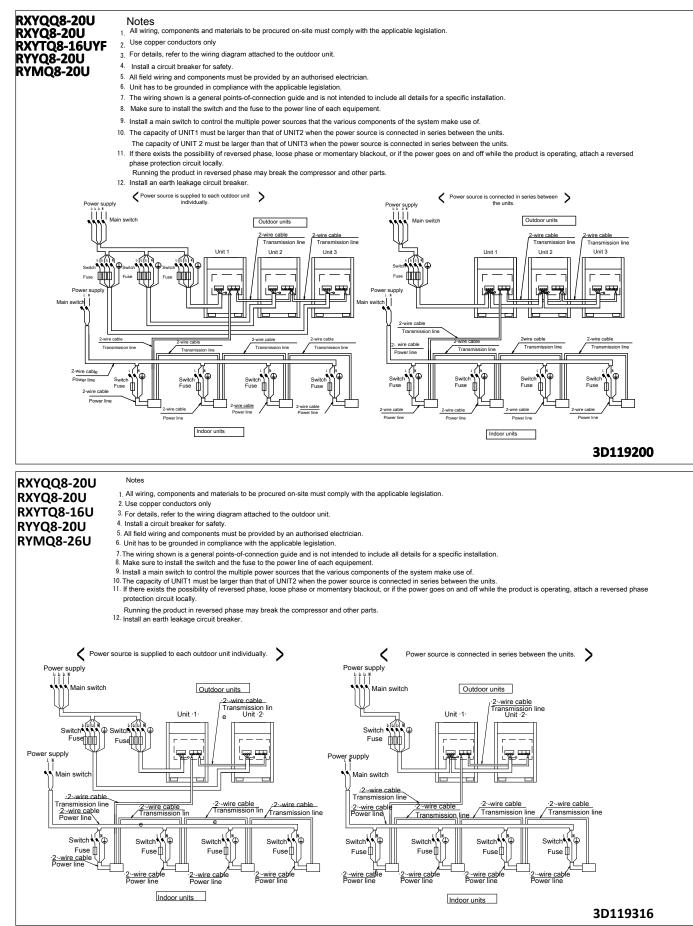
- 2. :: Field wiring, :: terminal block, OO: connector, --- : terminal,
- 3. 4.
- transmission F1-F2, outdoor-multi transmission Q1-Q2, refer to the installation manual. How to use BS1-3 switch. Refer to "service precaution" label on el. Compo. Box cover. When operating, don't shortcircuit the protection devices (S1PH,S2PH)
- 5.
- 6.
- Only for RYYQ model. Only for RYYQ/RYMQ model. 7. 8.
- Connector X1A (M1F) is red, connector X2A (M2F) is white.
 Colors: BLK:black, RED:red, BLU:blue, WHT:white, GRN:green.
- 11. Only for 14,16 class

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9

10 External connection diagrams

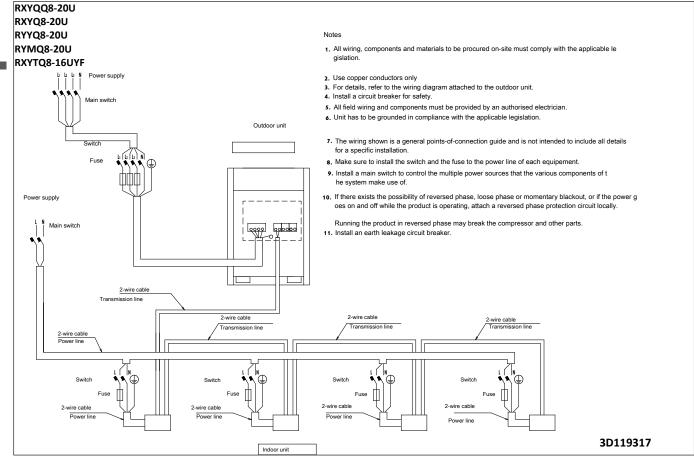
10 - 1 External Connection Diagrams





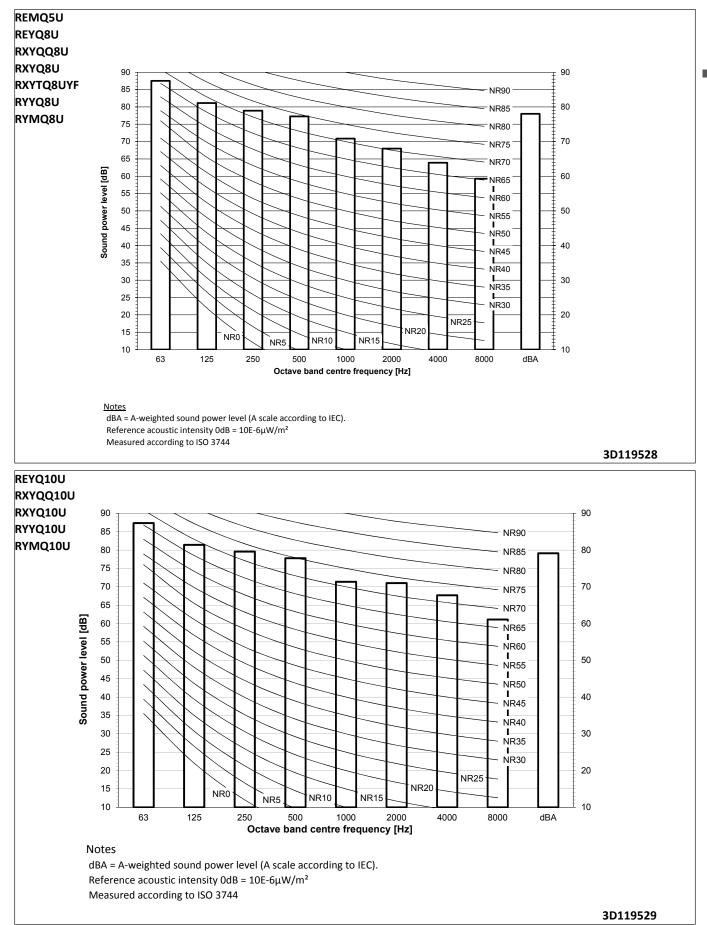
10 External connection diagrams

10 - 1 External Connection Diagrams



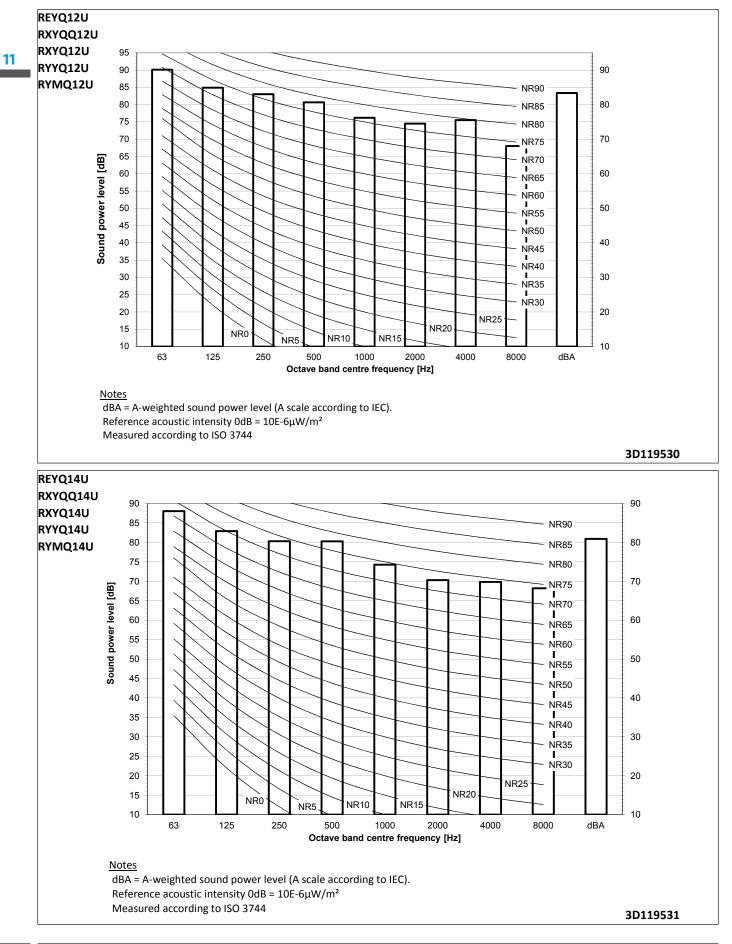
11 Sound data

11 - 1 Sound Power Spectrum



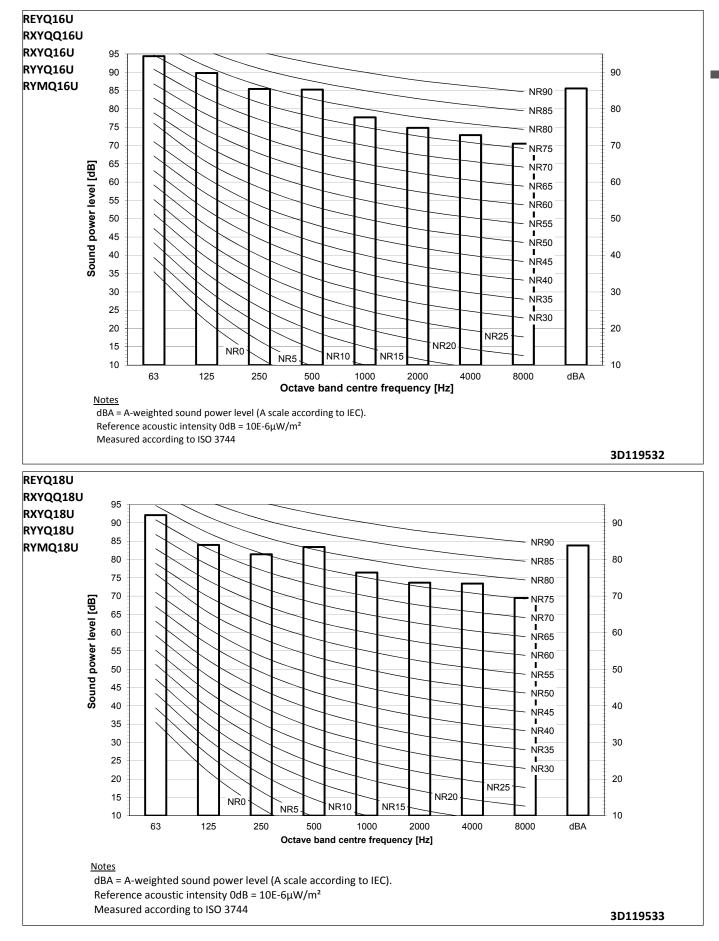


Sound Power Spectrum 11 - 1



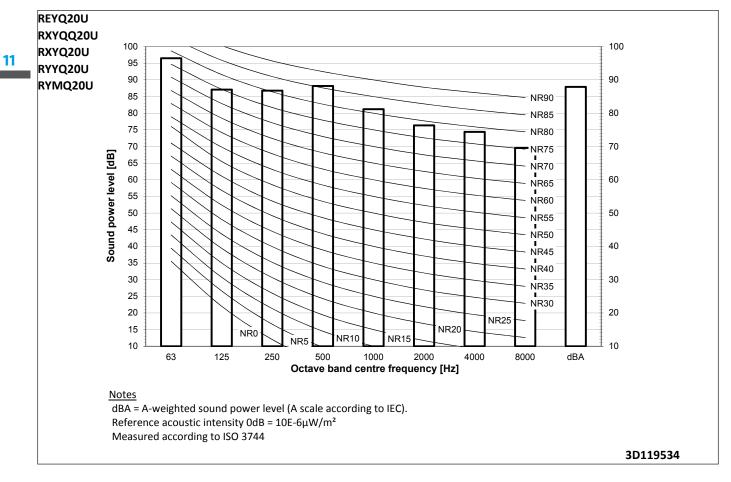
11 Sound data

11 - 1 Sound Power Spectrum



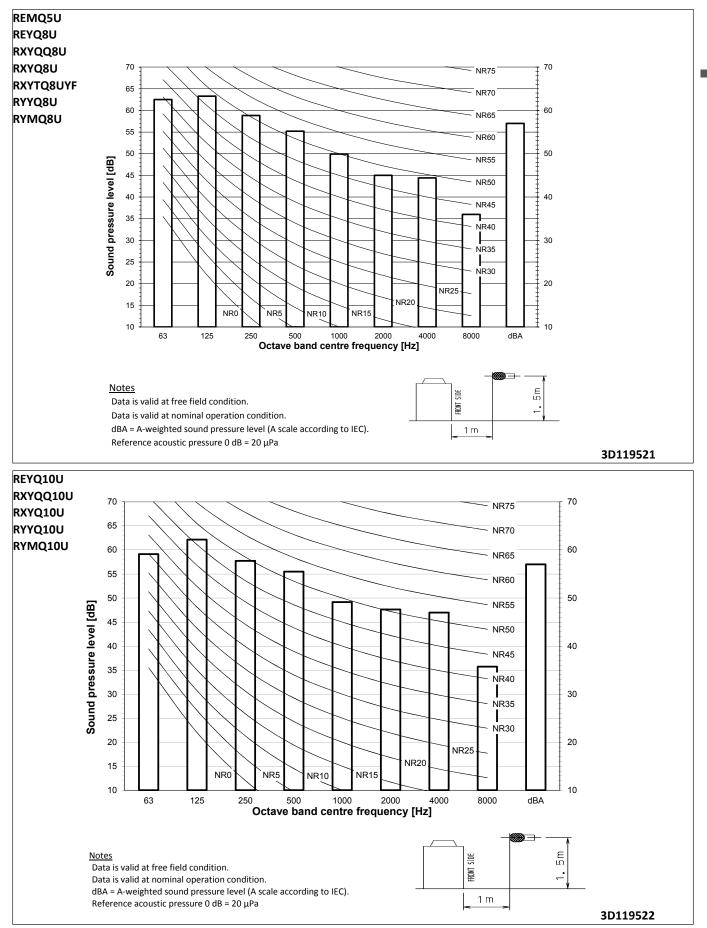


11 - 1 Sound Power Spectrum

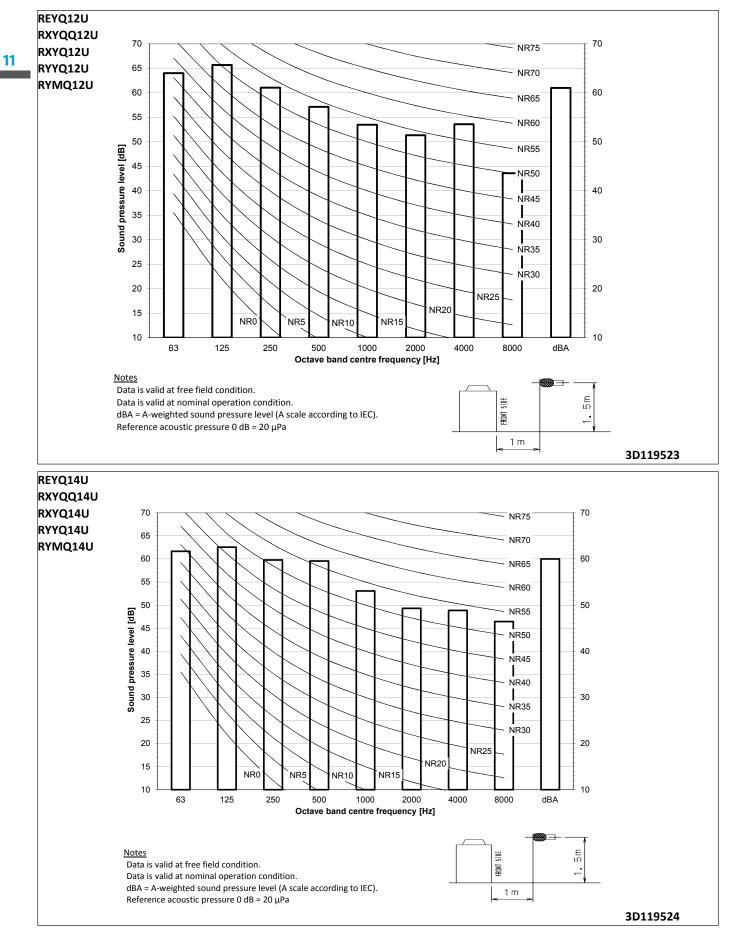


11 Sound data

11 - 2 Sound Pressure Spectrum

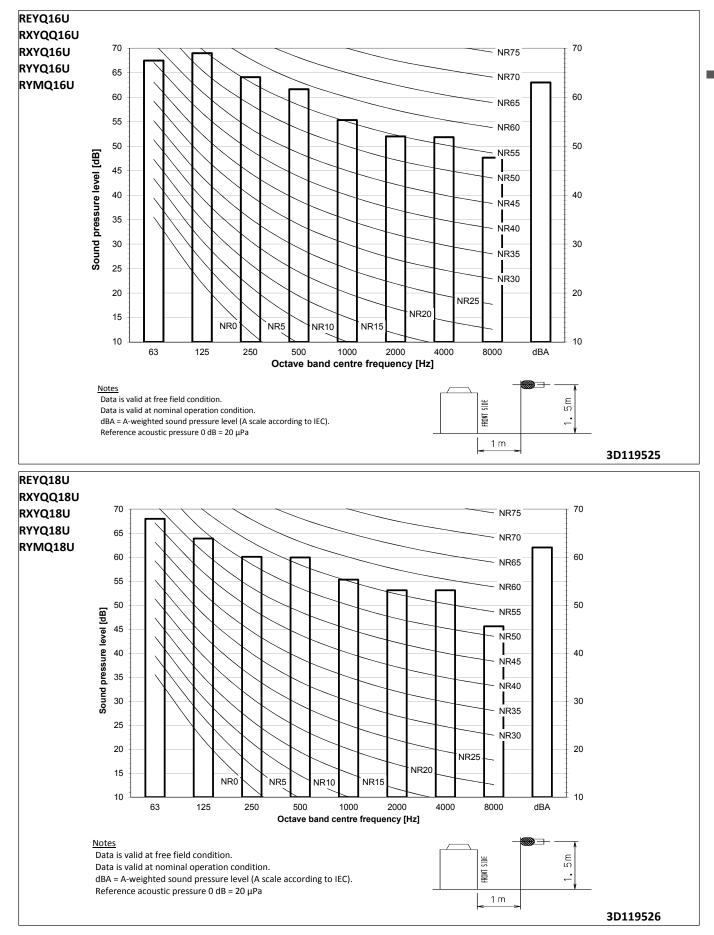


11 - 2 Sound Pressure Spectrum



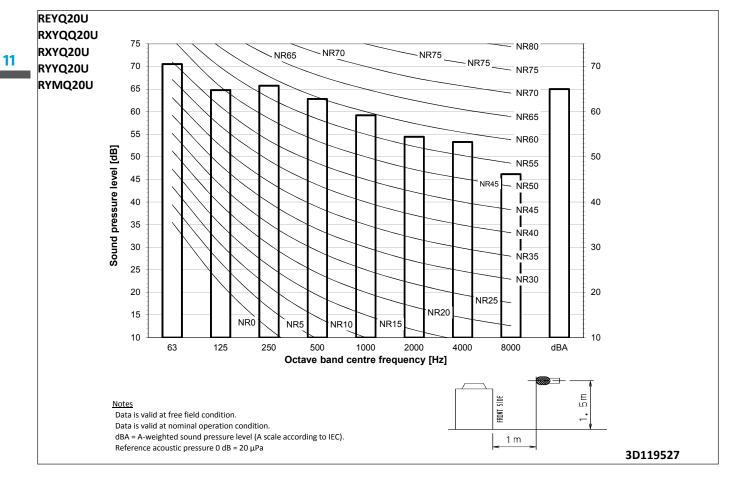
11 Sound data

11 - 2 Sound Pressure Spectrum



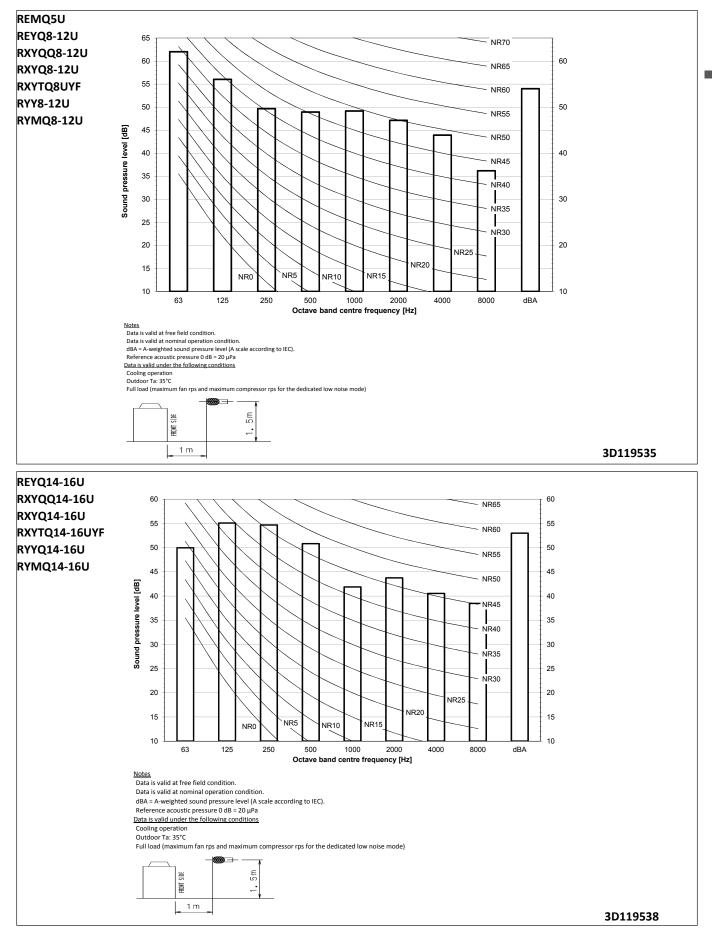
DAIKIN

11 - 2 Sound Pressure Spectrum

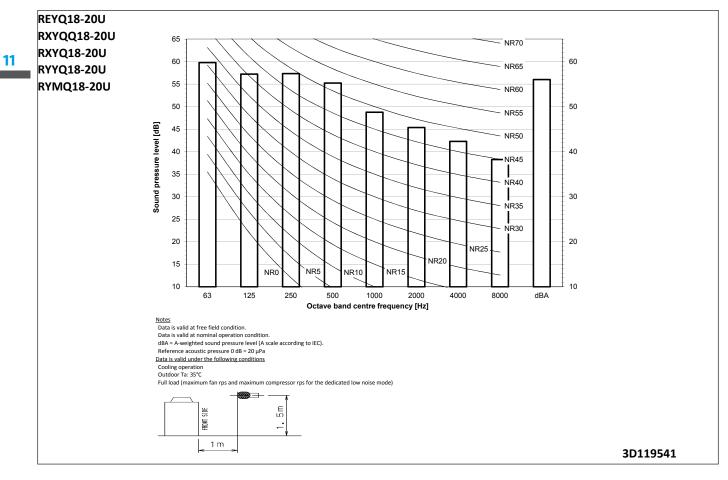


11 Sound data

11 - 3 Sound Pressure Spectrum Quiet Mode Level 1

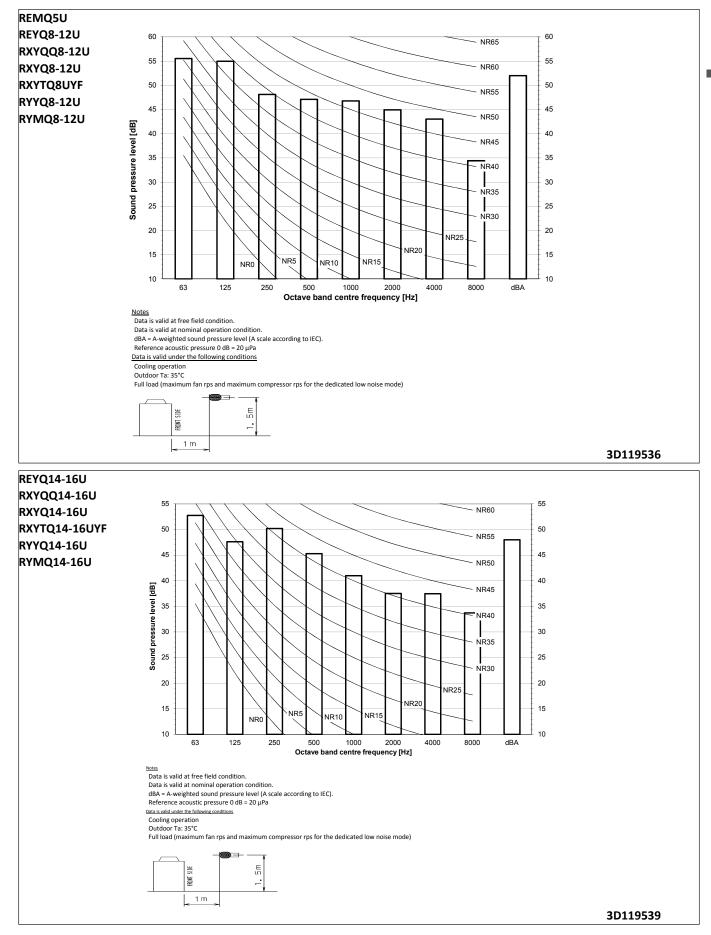


11 - 3 Sound Pressure Spectrum Quiet Mode Level 1



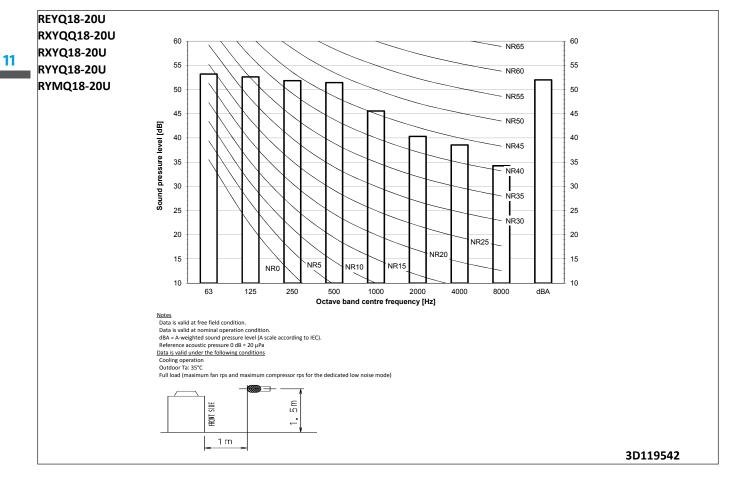
11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode Level 2



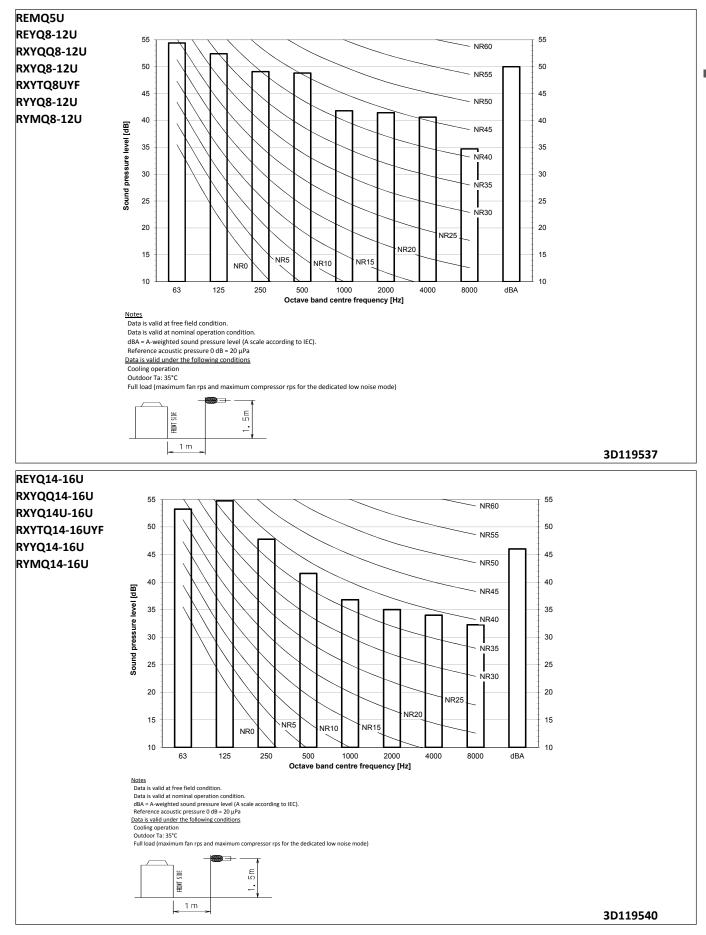


11 - 4 Sound Pressure Spectrum Quiet Mode Level 2

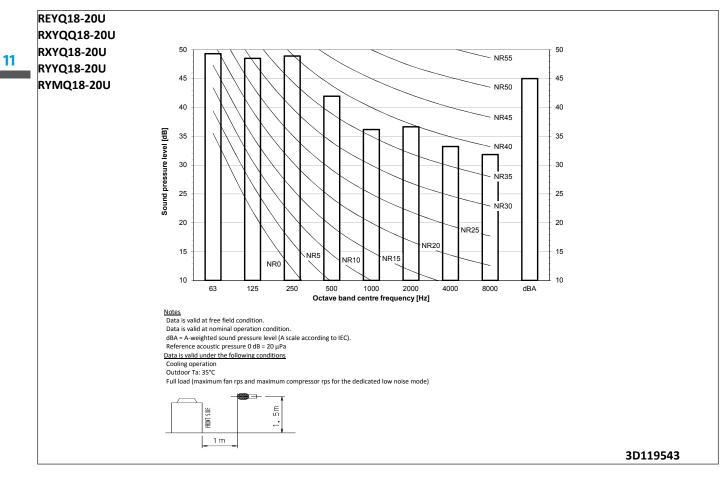


11 Sound data

11 - 5 Sound Pressure Spectrum Quiet Mode Level 3



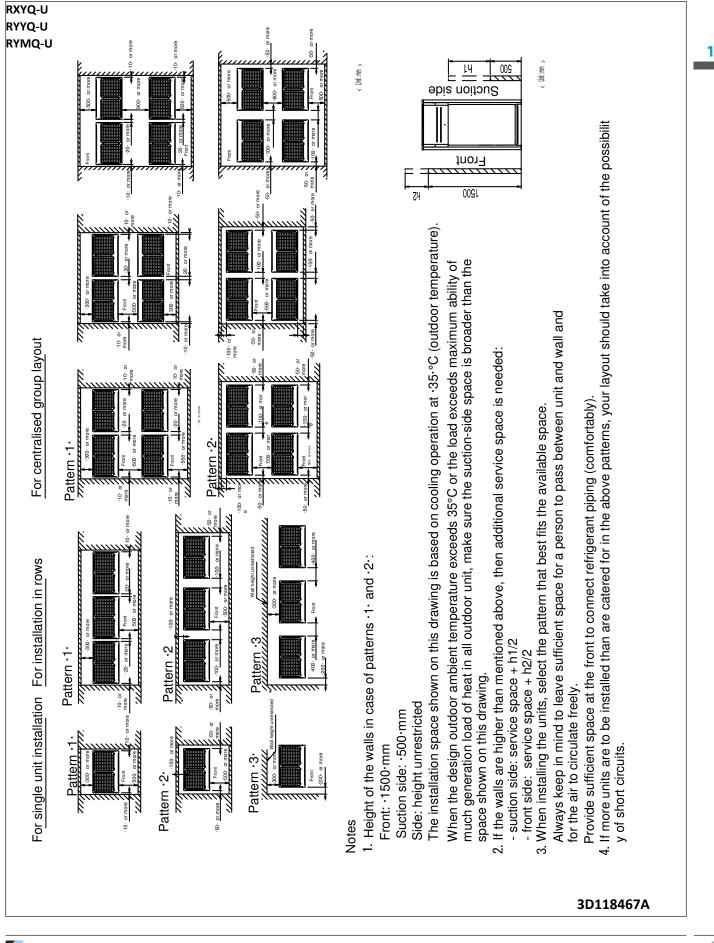
11 - 5 Sound Pressure Spectrum Quiet Mode Level 3



VRV IV+ heat pump, with continuous heating • RYYQ-U

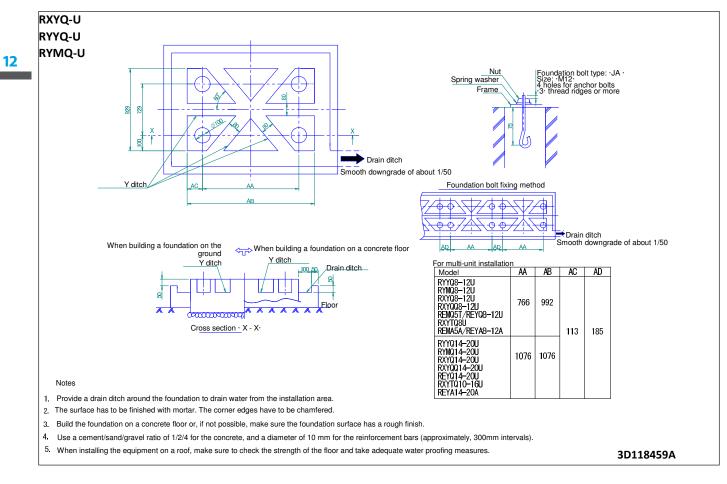
12 Installation

12 - 1 Installation Method



12 Installation

12 - 2 Fixation and Foundation of Units



12 Installation

12 - 3 Refrigerant Pipe Selection

RXYQ-U
RYYQ-Y
RYMQ-U

VRV4
Heat pump
Piping restrictions 1/3

		Maximum piping length			Maximum height difference			Total piping length
For the reference drawing, see		Longest pipe	After first branch	After first branch (for multi-outdoor)	Indoor-to-outdoor ⁽³⁾	Indoor-to-indoor	Outdoor-to-outdoor	rota piping iengen
page 2/3.		(A+[B,G,E,J])	(B,G,E,J)	(D)	(H1) Outdoor above indoor	(H2)	(H3)	
		Actual / (Equivalent)	Actual	Actual / (Equivalent)	/ (indoor above outdoor)			
Standard								
VRV DX indoor units only		165/(190)m	40m ⁽¹⁾	10/(13)m	50/(40)m ⁽³⁾	30m	5m	1000m
Standard multi-combination								
All multi-outdoor-unit combinations ex standard multi-outdoor-unit combinat		135/(160)m	40m ⁽¹⁾	10/(13)m	50/(40)m ⁽³⁾	30m	5m	500m
Hydrobox connection		135/(160)m	40m	10/(13)m	50/(40)m	15m	5m	300-500m ⁽⁵⁾
RA connection		100/(120)m	50m ⁽²⁾	-	50/(40)m	15m	-	250m
	Pair	50/(55)m ⁽⁴⁾	-	-	40/(40)m	-	-	-
AHU connection	Multi (6)	165/(190)m	40m	10/13m	40/(40)m	15m	5m	1000m
	Mix (7)	165/(190)m	40m	10/13m	40/(40)m	15m	5m	1000m

Remark

For standard multi-outdoor-unit combinations, see 3D079534.

(1) If all conditions below are met, the limitation can be extended up to 90 m $\,$

- a. The piping length between all indoor units and the nearest branch kit is $\leq 40m.$
- b. It is necessary to increase the size of the gas and liquid piping if the pipe length between the first and the farthest indoor unit is >40m.

If the increased pipe size is larger than the pipe size of the main pipe, also increase the size of the main pipe.

c. When the piping size is increased, the piping length has to be counted as double.

The total piping length has to be within limitations.

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

If the piping length between the first branch and the BP box or VRV indoor unit is more than 20m, increase the length of the gas and liquid piping between the first branch and the BP box or VRV (2) indoor unit.

(3) An extension to up to 90 m is possible without an additional option kit. Respect the following conditions:

-> If the outdoor units are positioned higher than the indoor units:

- a. Size up the liquid piping
- b. A dedicated setting on the outdoor unit is required.
- -> If the outdoor units are positioned lower than the indoor units:
- a. 40~60m Minimum connection ratio: 80%
 - 60~65m Minimum connection ratio: 90%
 - 65~80m Minimum connection ratio: 100%
 - 80~90m Minimum connection ratio: 110%
- b. Size up the liquid piping

A dedicated setting on the outdoor unit is required.

(4) The allowable minimum length is 5 m.

(5) In case of multi-outdoor-unit combinations.

(6) Multiple air handling units (AHU)(EKEXV + EKEQ kits).

(7) Mix of AHU units and VRV DX indoor

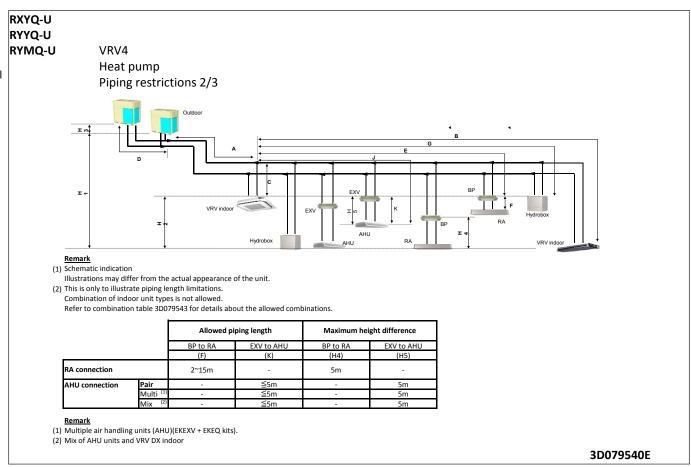
(8) If the equivalent piping length between is > 90m, size up the main liquid and gas piping.

3D079540E



12 Installation

12 - 3 Refrigerant Pipe Selection



12 Installation

12 - 3 Refrigerant Pipe Selection

RXYQ-U RYYQ-U RYMQ-U

VRV4 Heat pump Piping restrictions 3/3

System pattern Allowed connection ratio (CR)	Total		Allowed capacity				
Other combinations are not allowed.	Capacity	Indoor unit quantity (VRV, RA, AHU, Hydrobox)	VRV DX indoor unit	RA DX indoor unit	Hydrobox unit	Air handling unit (AHU)	
VRV DX indoor units only	50~130%	Max.64	50~130%	-	-	-	
VRV DX indoor unit + RA DX	80~130%	Max.32 ⁽¹⁾	0~130%	0~130%	-	-	
RA DX indoor unit	80~130%	Max.32 ⁽¹⁾	-	80~130%	-	-	
VRV DX indoor unit + LT hydrobox	50~130%	Max.32	50~130%	-	0~80%	-	
VRV DX indoor unit + AHU	50~110% ⁽³⁾	Max.64 ⁽²⁾	50~110%	-	-	0~110%	
AHU only Pair + multi (4)	90~110% ⁽³⁾	Max.64 ⁽²⁾	-	-	-	90~110%	

Remark

- (1) There is no restriction on the number of connectable BP boxes.
- (2) For connection with AHU
- EKEXV kits are also considered indoor units.
- (3) Restrictions regarding the air handling unit capacity
- (4) Pair AHU = system with 1 air handling unit connected to one outdoor unit Multi AHU = system with multiple air handling units connected to one outdoor unit

About ventilation applications

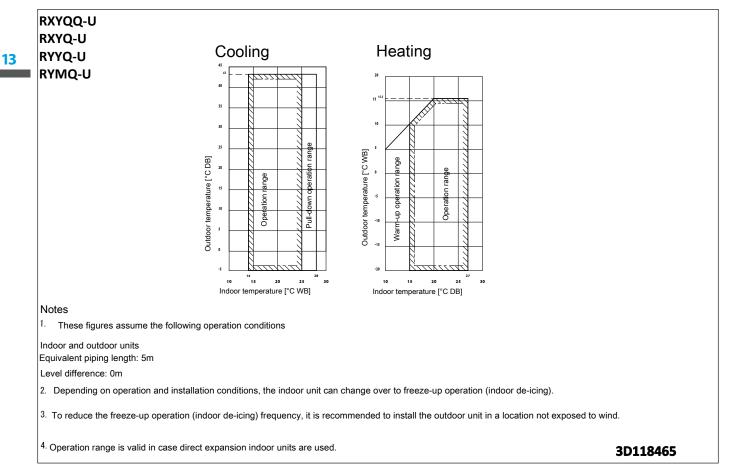
- FXMQ_MF units are considered air handling units, following air handling unit limitations. Maximum connection ratio when combined with VRV DX indoor units: <30%. Maximum connection ratio when only air handling units are connected: <100%. For information on the operation range, refer to the documentation of the FXMQ_MF unit.
- II. Biddle air curtains are considered air handling units, following air handling unit limitations: For information on the operation range, refer to the documentation of the Biddle unit.
- III. [EKEXV + EKEQ] units combined with an air handling unit are considered air handling units, following air handling unit limitations. For information on the operation range, refer to the documentation of the EKEXV-EKEQ unit.
- IV. VKM units are considered to be regular VRV DX indoor units.
 For information on the operation range, refer to the documentation of the VKM unit.
- V. Because there is no refrigerant connection with the outdoor unit (only communication F1/F2), VAM units do not have connection limitations. However, since there is communication via F1/F2, count them as regular indoor unit when calculating the maximum allowed number of connectable indoor units.

3D079540E



13 Operation range

13 - 1 Operation Range



Appropriate Indoors 14

14 - 1 Appropriate Indoors

RXYQ-U RYYQ-U RYMQ-U

Recommended indoor units for ·RXYQ*U* / RYYQ*U* / RYMQ*U* · outdoor units

··· HP	8	10	12	14	16	18	20
	4xFXMQ50	4xFXMQ63	6xFXMQ50	1xFXMQ50	4XFXMQ63	3xFXMQ50	2xFXMQ50
4xFXIVIQ30		OXFAIVIQSU	5XFXMQ63	2xFXMQ80	5XFXMQ63	6xFXMQ63	

For multi outdoor units >>16HP-, the recommended amount of indoor units is the sum of the indoor units defined for a single outdoor unit. For details about the allowed combinations, see the engineering databook.

Appropriate indoor units for ·RXYQ*U* / RYYQ*U* / RYMQ*U* · outdoor units

Covered by •ENER LOT21• FXFQ20-25-32-40-50-63-80-100-125 FXQ15-20-25-32-40-50-63-80-100-FXQ15-20-25-32-40-50-63-80-125 FXKQ25-32-40-63 FXDQ15-20-25-32-40-50-63 FXSQ15-20-25-32-40-50-63-80-100-125-140 FXMQ50-63-80-100-125-200-250 FXAQ15-20-25-32-40-50-63 FXHQ32-63-100 FXUQ71-100 FXNQ20-25-32-40-50-63 FXLQ20-25-32-40-50-63

Covered by ·ENER LOT10·

FTXJ25-35-50 FTXA20-25-35-42-50 FLXS25-35-50-60 FVXM25F-35F-50F FVXG25-35-50 FVXG25-35-50 FTXM20R-25R-35R-42R-50R-60R-71R CVXM20A FVXM25A-35A-50A

Outside the scope of .ENER LOT21.

EKEXV50-63-80-100-125-140-200-250-400-500 + EKEQM / EKEQF HXY080-125 VKM50-80-100 CYVS100-150-200-250 CYVM100-150-200-250 CYVL100-150-200-250 EKVDX32-50-80-100 + VAMJ8

3D118461E



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