

VRV IV+ heat pump, without continuous heating Air Conditioning Technical Data RXYQ-U5



RXYQ10U5Y1B RXYQ12U5Y1B RXYQ14U5Y1B RXYQ16U5Y1B RXYQ18U5Y1B RXYQ20U5Y1B RXYQ22U5Y1B RXYQ24U5Y1B RXYQ26U5Y1B RXYQ28U5Y1B RXYQ30U5Y1B RXYQ32U5Y1B RXYQ34U5Y1B RXYQ36U5Y1B RXYQ38U5Y1B RXYQ40U5Y1B RXYQ42U5Y1B RXYQ44U5Y1B RXYQ46U5Y1B RXYQ48U5Y1B RXYQ50U5Y1B RXYQ52U5Y1B RXYQ54U5Y1B

RXYQ8U5Y1B

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Features 1 RXYO-U5 1 - 1

Daikin's solution for comfort & low energy consumption

- > Covers all thermal needs of a building via a single point of contact: -> Fits any building as also indoor installation is possible as a result 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, 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
- > Free combination of outdoor units to meet installation space or efficiency requirements

- 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





Technical Sp	ecifications		RXYQ8U5	RXYQ10U5	RXYQ12U5	RXYQ14U5
Recommended co			4 x FXFQ50AVEB	4 x FXFQ63AVEB	6 x FXFQ50AVEB	1 x FXFQ50AVEB + 5 x FXFQ63AVEB
Recommended co	ombination 2		4 x FXSQ50A2VEB	4 x FXSQ63A2VEB	6 x FXSQ50A2VEB	1 x FXSQ50A2VEB + 5 x FXSQ63A2VEB
Recommended co	ombination 3		4 x FXMQ50P7VEB	4 x FXMQ63P7VEB	6 x FXMQ50P7VEB	1 x FXMQ50P7VEB + 5 x FXMQ63P7VEB
Cooling capacity	Prated,c	kW	22.4 (1)	28.0 (1)	33.5 (1)	40.0 (1)
leating capacity	Nom. 6°CWB	kW	22.4 (2)	28.0 (2)	33.5 (2)	40.0 (2)
5 1 7	Prated,h	kW	22.4 (2)	28.0 (2)	33.5 (2)	40.0 (2)
	Max. 6°CWB	kW	25.0 (2)	31.5 (2)	37.5 (2)	45.0 (2)
Power input - 50H	z Heating Nom. 6°CWB	kW	5.40 (2)	7.58 (2)	9.65 (2)	10.69 (2)
COP at nom.	6°CWB	kW/kW	4.15 (2)	3.69 (2)	3.47 (2)	3.74 (2)
SEER - Automatio	5		7.53	7.20	6.96	6.83
SEER - Standard			6.37	5.67	5.50	5.31
SCOP				.3	4.1	4.0
	ded combination 2		4.2	4.3	4.1	4.0
	ded combination 3		4.2		l.1	4.0
SEER			7.6	6.8	1	6.3
	ed combination 2		6.9	6.8	5.9	6.3
	ed combination 3		7.5	6.8		6.2
		%	302.4			
ղs,c				267.6	247.8	250.7
ղs,h		%	167.9	168.2	161.4	155.4
Space cooling	A Condi- EERd	1.14	3.0	2.3	2.4	2.6
	tion (35°C Pdc - 27/19)	kW	22.4	28.0	33.5	40.0
	B Condi- EERd		5.2	4.7	4.3	4.1
	tion (30°C Pdc - 27/19)	kW	16.5	20.6	24.7	29.5
	C Condi- EERd		9.5	8.3	7.7	7.8
	tion (25°C Pdc - 27/19)	kW	10.6	13.3	15.9	18.9
	D Condi- EERd		18.8	17.0	13.9	14.3
	tion (20°C Pdc - 27/19)	kW	8.0	9.3	9.4	8.4
Space cooling	A Condi- EERd		2.6	2	.4	2.6
recommended	tion (35°C Pdc - 27/19)	kW	22.4	28.0	33.5	40.0
	B Condi- EERd		4.9	4.7	4.0	4.1
	tion (30°C Pdc - 27/19)	kW	16.5	20.6	24.7	29.5
	C Condi- EERd		8.8	8.5	7.1	7.9
	tion (25°C Pdc - 27/19)	kW	10.6	13.3	15.9	18.9
	D Condi- EERd		15.1	17.2	13.1	14.0
	tion (20°C Pdc - 27/19)	kW	8.8	9.3	9.1	8.4
Space cooling recommended	A Condi- EERd tion (35°C		3.0	2.3	2.4	2.6
combination 3	- 27/19)					
Space cooling	A Condi- Pdc	kW	22.4	28.0	33.5	40.0
ecommended	tion (35°C					
combination 3	- 27/19)					
	B Condi- EERd		5.1	4.7	4.2	4.0
	tion (30°C Pdc	kW	16.5	20.6	24.7	29.5
	- 27/19)			23.0		27.5
	C Condi- EERd		9.6	8.4		7.7
	tion (25°C Pdc	kW	10.6	13.3	15.9	19.0
	- 27/19)	IX V V	10.0		1.5.7	12.0
	D Condi- EERd		16.0	16.9	13.7	14.0
	tion (20°C Pdc	kW	9.1	9.3	9.4	8.4
			2.1	2.2	2.4	0.4

2 - 1 Specifications

Technical Spe			1	RXYQ8U5	RXYQ10U5	RXYQ12U5	RXYQ14U5
Space heating	IBivalent	COPd (declared COP)	1.14/	2.5	2.4	2.0	2.3
Average climate)		Pdh (declared heating cap)	kW	13.7	16.0	18.4	20.6
	TO	Tbiv (bivalent temperature)	°C	2.5		0	
	TOL	COPd (declared COP)	1.14/	2.5	2.4	2.0	2.3
		Pdh (declared heating cap)	kW	13.7	16.0	18.4	20.6
		Tol (temperature operating limit)	°C		-1	0	
	A Con-	COPd (declared COP)		2.7	2.6	2.4	2.6
	dition	Pdh (declared heating cap)	kW	12.1	14.2	16.3	18.2
	(-7°C)	run (declared heating cap)		12.1	14.2	10.5	10.2
		COPd (declared COP)			3.9		3.5
		Pdh (declared heating cap)	kW	7.4	8.6	9.9	11.1
		COPd (declared COP)		6.3	6.4		5.1
		Pdh (declared heating cap)	kW	5.0	5.5	6.4	7.1
	D Con-	COPd (declared COP)		7.9	8.2	7.9	8.5
	dition	Pdh (declared heating cap)	kW		5.9	6.3	4.9
	(12°C)						
Space heating	A Con-	COPd (declared COP)		2	2.7	2.4	2.6
Average climate)	dition	Pdh (declared heating cap)	kW	12.1	14.2	16.3	18.2
ecommended	(-7°C)						
ombination 2		COPd (declared COP)		3.9	4.0	3.9	3.5
	tion (2°C)	Pdh (declared heating cap)	kW	7.4	8.6	9.9	11.1
	C Condi-	COPd (declared COP)		6.3	6.5		5.1
	tion (7°C)	Pdh (declared heating cap)	kW	5.0	5.5	6.4	7.1
	D Con-	COPd (declared COP)		7.8	8.3	7.9	8.6
	dition	Pdh (declared heating cap)	kW	5.9	6.0	6.4	4.9
	(12°C)						
	TBivalent	COPd (declared COP)			2.4	1.9	2.3
		Pdh (declared heating cap)	kW	13.7	16.0	18.4	20.6
		Tbiv (bivalent temperature)	°C			0	
	TOL	COPd (declared COP)			2.4	1.9	2.3
		Pdh (declared heating cap)	kW	13.7	16.0	18.4	20.6
		Tol (temperature operating	°C		-1	0	
		limit)			1		1
Space heating	A Con-	COPd (declared COP)		2.7	2.6	2.4	2.6
Average climate)	dition	Pdh (declared heating cap)	kW	12.1	14.2	16.3	18.2
ecommended	(-7°C)						
combination 3	D.C			2.0	27	2.0	2.5
Space heating		COPd (declared COP)	1.1.47	3.9	3.7	3.9	3.5
Average climate) ecommended		Pdh (declared heating cap)	kW	7.4	8.6	9.9	11.1
combination 3		COPd (declared COP)	1.14/	6.2	6.4	6.0	6.1
		Pdh (declared heating cap)	kW	4.9	5.5	6.4	7.1
	D Con- dition	COPd (declared COP)	L-1.0./	7.8	8.1	7.8	8.5
	(12°C)	Pdh (declared heating cap)	kW	5.8	5.9	6.2	4.9
		COPd (declared COP)		2.5	2.4	2.0	2.3
	TDivalent	Pdh (declared heating cap)	kW	13.7	16.0	18.4	2.3
		Tbiv (bivalent temperature)	°C	15.7		0	20.0
	TOL	COPd (declared COP)	-	2.5	2.4	2.0	2.3
	101	Pdh (declared heating cap)	kW	13.7	16.0	18.4	20.6
		Tol (temperature operating	°C	1.5.7		0	20.0
		limit)	~		-	-	
Capacity range		,	HP	8	10	12	14
PED	Category			~		jory II	
-	Most	Name				nulator	
	critical	Ps*V	Bar*l		325		415
	part		· · ·				
Maximum number		able indoor units			64	(3)	
ndoor index	Min.			100.0	125.0	150.0	175.0
onnection	Max.			260.0	325.0	390.0	455.0
Dimensions	Unit	Height	mm		1,6		
		Width	mm		930		1,240
		Depth	mm		76	55	
	Packed	Height	mm		1,8		
	unit	Width	mm		995		1,305
		Depth	mm		80	50	
Veight	Unit		kg		201		281
	Packed ur	nit	kg		219		302
Packing	Material					ton	
2	Weight		kg		4.7		5.7
	Material					od	
Packing 2							

2 - 1 Specifications

Technical Spe		ns			RXYQ8U5	RXYQ10U5		YQ12U5	RXYQ14U5		
Packing 3	Material					0.5	Plastic		67		
Casing	Weight			kg	0.5 0.7						
Casing	Colour Material				lvory white Painted galvanized steel plate						
Heat exchanger	Туре						oss fin coil	ριαις			
icat exchanger	Indoor sic	le				C	Air				
Heat exchanger	Outdoor						Air				
i eur exenanger	Air flow	Cooling	Rated	m³/h	9,720	10,500		11,100	13,380		
	rate	Heating	Rated	m³/h	9,720	10,500		11,100	13,380		
Fan	Quantity					1		,	2		
	External static	Max.		Ра			78				
	pressure					1			2		
an motor	Quantity Type						OC motor		Ζ		
	Output			W		550			750		
Compressor	Quantity					1			2		
2011111123501	Туре				Hermetically sealed scroll compressor						
	Crankcase	e heater		W	33						
Operation range	Cooling	Min.		°CDB			-5.0				
	2	Max.		°CDB			43.0				
	Heating	Min.		°CWB	-20.0						
		Max.		°CWB							
Sound power level	Cooling	Nom.		dBA	78.0 (4)	79.1 (4)	8	33.4 (4)	80.9 (4)		
	Heating	Prated,h		dBA	79.6 (4)	80.9 (4)	8	33.5 (4)	83.1 (4)		
Sound pressure	Cooling	Nom.		dBA	57.0	(5)	(51.0 (5)	60.0 (5)		
evel											
Refrigerant	Туре				R-410A						
	GWP				2,087.5						
	Charge			kg	5.9	6.0	(6.3	10.3		
Refrigerant oil	· · · · · · · · · · · · · · · · · · ·					,	(ether) oil FVC	68D			
Piping connections	5 Liquid	Туре			-		e connection				
		OD		mm	9.			1	2.7		
Ga	Gas	Туре			10.1		e connection		0.6		
	Tetel	OD		mm	19.1	22.2	1.000 (C)	2	8.6		
	Total piping length	System	Actual	m			1,000 (6)				
Defrost method	length					Rev	ersed cycle				
Capacity control	Method						ter controlled				
Indication if the he		pped with	a supplemer	ntary heater		inver	no				
Supplementary neater		Heating		kW			0.0				
Power consump-	Crank-	Cooling	PCK	kW			0.000				
ion in other than active mode	case heater mode	Heating	РСК	kW		0.052			0.077		
	Off mode	Coolina	POFF	kW		0.041			0.074		
		Heating		kW		0.052			0.077		
	CL	Cooling	PSB	kW							
	Standby		PSB		0.041				0.074		
	standby mode	Heating	1 50	kW		0.052			0.077		
ower consump-			PTO	kW kW					0.010		
ion in other than active mode	mode Thermo- stat-off mode	Cooling Heating	PTO PTO			0.052					
ion in other than active mode Cooling	mode Thermo- stat-off mode Cdc (Degr	Cooling Heating radation co	PTO PTO poling)	kW		0.052 0.005	0.25		0.010		
ion in other than active mode Cooling Heating	mode Thermo- stat-off mode Cdc (Degr Cdh (Deg	Cooling Heating radation co	PTO PTO poling)	kW		0.052 0.005 0.056	0.25		0.010		
ion in other than active mode Cooling Heating	mode Thermo- stat-off mode Cdc (Degr	Cooling Heating radation co radation h 01	PTO PTO poling)	kW		0.052 0.005 0.056 High p	0.25 pressure switch		0.010		
ion in other than active mode Cooling Heating	mode Thermo- stat-off mode Cdc (Degr Cdh (Deg	Cooling Heating radation co radation h 01 02	PTO PTO poling)	kW		0.052 0.005 0.056 High p Fan driver	0.25 ressure switch overload prote	ector	0.010		
ion in other than active mode Cooling Heating	mode Thermo- stat-off mode Cdc (Degr Cdh (Deg	Cooling Heating radation cor radation h 01 02 03	PTO PTO poling)	kW		0.052 0.005 0.056 High p Fan driver Inverter o	0.25 pressure switch overload prote verload prote	ector	0.010		
ion in other than active mode Cooling Heating	mode Thermo- stat-off mode Cdc (Degr Cdh (Deg	Cooling Heating radation co radation h 01 02 03 04	PTO PTO poling)	kW		0.052 0.005 0.056 High p Fan driver Inverter o PC	0.25 pressure switch overload prote verload protec board fuse	ector ctor	0.010		
ion in other than active mode Cooling Heating	mode Thermo- stat-off mode Cdc (Degr Cdh (Deg	Cooling Heating radation cor radation h 01 02 03	PTO PTO poling)	kW		0.052 0.005 0.056 High p Fan driver Inverter o PC	0.25 pressure switch overload prote verload prote	ector ctor	0.010		
ion in other than active mode Gooling Jeating Gafety devices	mode Thermo- stat-off mode Cdc (Degi Cdh (Degi Item	Cooling Heating radation co radation h 01 02 03 04 05	PTO PTO poling)	kW	RXY016U5	0.052 0.005 0.056 High p Fan driver Inverter o PC Leakage	0.25 ressure switch overload protec verload protec board fuse current detect	ector ctor	0.010 0.097		
ion in other than active mode Cooling Heating Gafety devices Technical Spe	mode Thermo- stat-off mode Cdc (Degi Cdh (Degi Item	Cooling Heating radation co radation h 01 02 03 04 05	PTO PTO poling)	kW	RXYQ16U5 4 x FXFO63AVEB + 2	0.052 0.005 0.056 High p Fan driver Inverter o PC Leakage	0.25 rressure switch overload protec board fuse current detect	ector ctor tor	0.010 0.097		
tion in other than active mode Cooling Heating Safety devices Technical Spe	mode Thermo- stat-off mode Cdc (Degi Cdh (Degi Item	Cooling Heating radation co radation h 01 02 03 04 05	PTO PTO poling)	kW	RXYQ16U5 4 x FXFQ63AVEB + 2 FXFQ80AVEB	0.052 0.005 0.056 High p Fan driver Inverter o PC Leakage R) X 3 x FXF	0.25 ressure switch overload protec verload protec board fuse current detect	ector ctor tor	0.010 0.097		
tion in other than active mode Cooling Heating Safety devices Technical Spe Recommended cor	mode Thermo- stat-off mode Cdc (Degr Cdh (Degr Item	Cooling Heating radation co radation h 01 02 03 04 05 ms	PTO PTO poling)	kW	4 x FXFQ63AVEB + 2	0.052 0.005 0.056 Fan driver Inverter o PC Leakage R) X 3 x FXF FX	0.25 ressure switch overload protect board fuse current detect (YQ18U5 :Q50AVEB + 5 >	tor	0.010 0.097 RXYQ20U5 x FXFQ50AVEB + 6 x FXFQ63AVEB		
tion in other than active mode Cooling Heating Safety devices Technical Spe Recommended cor	mode Thermo- stat-off mode Cdc (Degr Cdh (Degr Item	Cooling Heating radation co radation h 01 02 03 04 05 ms	PTO PTO poling)	kW	4 x FXFQ63AVEB + 2 FXFQ80AVEB	0.052 0.005 0.056 High p Fan driver Inverter o PC Leakage RD Ex 3 x FXF FX 2 x 3 x FXS	0.25 rressure switch overload protec board fuse current detect (YQ18U5 :Q50AVEB + 5 > FQ63AVEB	tor	0.010 0.097 RXYQ20U5 x FXFQ50AVEB + 6 x FXFQ63AVEB		
tion in other than active mode Cooling Heating Safety devices Technical Spe Recommended cor Recommended cor	mode Thermo- stat-off mode Cdc (Degi Cdh (Degi Item	Cooling Heating radation co radation h 01 02 03 04 05 04 05	PTO PTO poling)	kW	4 x FXFQ63AVEB + 2 FXFQ80AVEB 4 x FXSQ63A2VEB +	0.052 0.005 0.056 Fan driver Inverter o PC Leakage RX 1x 3 x FXF FX 2x 3 x FXS FX:	0.25 ressure switch overload protect board fuse current detect (YQ18U5 Q50AVEB + 5 > FQ63AVEB Q50A2VEB + 5	tor x 2 x 2	0.010 0.097 RXYQ20U5 × FXFQ50AVEB + 6 × FXFQ63AVEB × FXSQ50A2VEB + 6 × FXSQ50A2VEB + 6 ×		
tion in other than active mode Cooling Heating Safety devices Technical Spe Recommended cor	mode Thermo- stat-off mode Cdc (Degi Cdh (Degi Item	Cooling Heating radation co radation h 01 02 03 04 05 04 05	PTO PTO poling)	kW	4 x FXFQ63AVEB + 2 FXFQ80AVEB 4 x FXSQ63A2VEB + FXSQ80A2VEB	0.052 0.005 0.056 High p Fan driver Inverter o PC Leakage RD X 3 x FXF FX 2 x 3 x FXS FX:	0.25 ressure switch overload protect board fuse current detect (YQ18U5 Q50AVEB + 5 > FQ63AVEB Q50A2VEB + 5 SQ63A2VEB	tor x 2 x 2	0.010 0.097 RXYQ20U5 × FXFQ50AVEB + 6 × FXFQ63AVEB × FXSQ50A2VEB + 6 × FXSQ50A2VEB + 6 ×		
tion in other than active mode Cooling Heating Safety devices Technical Spe Recommended cor Recommended cor	mode Thermo- stat-off mode Cdc (Degi Cdh (Degi Item	Cooling Heating radation co radation h 01 02 03 04 05 04 05	PTO PTO poling)	kW	4 x FXFQ63AVEB + 2 FXFQ80AVEB 4 x FXSQ63A2VEB + FXSQ80A2VEB 4 x FXMQ63P7VEB +	0.052 0.005 0.056 High p Fan driver Inverter o PC Leakage RD X 3 x FXF FX 2 x 3 x FXS FX:	0.25 ressure switch overload protect board fuse current detect (YQ18U5 (CSOAVEB + 5) FQ63AVEB QSOA2VEB + 5 GQ63A2VEB QSOP7VEB + 5	tor x 2 x 2	0.010 0.097 RXYQ20U5 x FXFQ50AVEB + 6 x FXFQ63AVEB x FXSQ50A2VEB + 6 x FXSQ63A2VEB x FXSQ50A2VEB + 6 x		
tion in other than active mode Cooling Heating Safety devices Technical Spe Recommended cor Recommended cor Recommended cor	mode Thermo- stat-off mode Cdc (Degr Cdh (Deg Item ecificatio mbination mbination	Cooling Heating radation co radation h 01 02 03 04 05 04 05	PTO PTO poling)	kW kW i	4 x FXFQ63AVEB + 2 FXFQ80AVEB 4 x FXSQ63A2VEB + FXSQ80A2VEB 4 x FXMQ63P7VEB + FXMQ80P7VEB	0.052 0.005 0.056 High p Fan driver Inverter o PC Leakage RD X 3 x FXF FX 2 x 3 x FXS FX:	0.25 ressure switch overload protect board fuse current detect (YQ18US CG50AVEB + 5 > FQ63AVEB Q50A2VEB + 5 GQ63A2VEB Q50P7VEB + 5 MQ63P7VEB	tor x 2 x 2	0.010 0.097 0.097 x FXFQ50AVEB + 6 x FXFQ63AVEB x FXSQ50A2VEB + 6 x FXSQ50A2VEB + 6 x FXSQ63A2VEB x FXMQ50P7VEB + 6 x FXMQ50P7VEB		
Power consump- tion in other than active mode Cooling Heating Safety devices Technical Spe Recommended cor Recommended cor Recommended cor Cooling capacity Heating capacity	mode Thermo- stat-off mode Cdc (Degi Cdh (Deg Item ecificatio mbination mbination 2 mbination 3	Cooling Heating radation cc radation h 01 02 03 04 05 04 05 04 05	PTO PTO poling)	kW k	4 x FXFQ63AVEB + 2 FXFQ80AVEB 4 x FXSQ63A2VEB + FXSQ80A2VEB 4 x FXMQ63P7VEB + FXMQ80P7VEB 45.0 (1)	0.052 0.005 0.056 High p Fan driver Inverter o PC Leakage RD X 3 x FXF FX 2 x 3 x FXS FX:	0.25 rressure switch overload protect board fuse current detect (YQ18U5 CQ50AVEB + 5 CQ63A2VEB Q50A2VEB + 5 SQ63A2VEB Q50P7VEB + 5 AQ63P7VEB + 5 50.4 (1)	tor x 2 x 2	0.010 0.097 x FXFQ20U5 x FXFQ50AVEB + 6 x FXFQ63AVEB x FXSQ63A2VEB x FXSQ63A2VEB x FXMQ63P7VEB + 6 y FXMQ63P7VEB 52.0 (1)		



2 - 1 Specifications

Technical Spe				RXYQ16U5	RXYQ18U5	RXYQ20U5
Power input - 50Hz	-	Nom. 6°CWB	kW	12.54 (2)	14.22 (2)	17.47 (2)
COP at nom.	6°CWB		kW/kW	3.59 (2)	3.54 (2)	3.20 (2)
capacity						
ESEER - Automatic				6.50	6.38	5.67
ESEER - Standard				5.05	4.97	4.42
SCOP				4.0	4.2	4.0
SCOP recommend				4.1	4.2	4.0
SCOP recommend	ed combina	ition 3		4.0	4.1	3.9
SEER					6.0	5.9
SEER recommende				5.9	6.0	5.9
SEER recommende	ed combina	tion 3		5.8	6.0	5.9
յs,c			%	236.5	238.3	233.7
ղs,h		550 J	%	157.8	163.1	156.6
Space cooling	A Condi-			2.1		.9
	tion (35°C	Pac	kW	45.0	50.4	52.0
	- 27/19)			2.0	2.0	2.7
	B Condi-		1.14/	3.9	3.8	3.7
	tion (30°C	ruc	kW	33.2	37.1	38.3
	- 27/19) C Condi-	EEDd		7.7	7.5	7.3
	tion (25°C		kW	21.3	23.9	
	- 27/19)	FUL	K.VV	21.3	23.9	24.6
	- 2// 19) D Condi-	FERd		14.2	10	3.3
	tion (20°C		kW	9.5		.5
	- 27/19)	TUC	KVV	7.0	- · · · · · · · · · · · · · · · · · ·	
Space cooling	- 2// 19) A Condi-	FERd		2.1	1	.9
ecommended	tion (35°C		kW	45.0	50.4	52.0
combination 2	- 27/19)	i uc		ט.נד	50.4	52.0
	B Condi-	FFRd		3.8	3.7	3.6
	tion (30°C		kW	33.2	37.1	38.3
	- 27/19)	1.40		53.4	57.1	50.5
	C Condi-	FERd		7.6	7.5	7.3
	tion (25°C		kW	21.3	23.9	24.6
	- 27/19)	, ac		21.5	25.7	21.0
	D Condi-	FERd		14.0	18.1	18.9
	tion (20°C		kW	9.5	11.4	10.9
	- 27/19)			_ 10		
Space cooling	A Condi-	EERd		2.1	1	.9
recommended	tion (35°C					
combination 3	- 27/19)					
Space cooling	A Condi-	Pdc	kW	45.0	50.4	52.0
recommended	tion (35°C					
combination 3	- 27/19)					
	B Condi-	EERd			3.7	3.6
	tion (30°C		kW	33.2	37.1	38.3
	- 27/19)					
	C Condi-			7.4	7.6	7.3
	tion (25°C	Pdc	kW	21.3	23.9	24.6
	- 27/19)					
	D Condi-	EERd		14.1	18	3.3
	tion (20°C		kW	9.5		.6
	- 27/19)					
Space heating	TBivalent	COPd (declared COP)		2.2	1.9	1.8
Average climate)		Pdh (declared heating cap) kW	23.2	27.9	31.0
		Tbiv (bivalent temperatur	e) °C		-10	
	TOL	COPd (declared COP)		2.2	1.9	1.8
		Pdh (declared heating cap) kW	23.2	27.9	31.0
		Tol (temperature operatin			-10	
		limit)				
	A Con-	COPd (declared COP)		2.6	2.4	2.1
	dition	Pdh (declared heating cap) kW	20.5	24.7	27.4
	(-7°C)					
		COPd (declared COP)		3.5	3.7	3.6
		Pdh (declared heating cap) kW	12.5	15.0	16.7
				6.3	6.7	6.5
		Pdh (declared heating cap) kW	8.0	9.7	10.7
	D Con-	COPd (declared COP)		8.6	9.0	9.1
	dition	Pdh (declared heating cap) kW	4.9		.1
	(12°C)		·			

Technical Spe				RXYQ16U5	RXYQ18U5	RXYQ20U5
Space heating	A Con-	COPd (declared COP)	1.11/	2.6	2.4	2.2
Average climate)	dition	Pdh (declared heating cap)	kW	20.5	24.7	27.4
recommended	(-7°C)			2.5	2.0	
combination 2		COPd (declared COP)	1.14/	3.5	3.8	3.7
		Pdh (declared heating cap)	kW	12.2	15.0	16.7
		COPd (declared COP)	1.14/	6.3	6.8	6.5
		Pdh (declared heating cap)	kW	8.0	9.7	10.7
	D Con-	COPd (declared COP)	1.14	8.7	9.1	9.2
	dition	Pdh (declared heating cap)	kW	5.0	7	.2
	(12°C)			2.2	10	10
	IBivalent	COPd (declared COP)	1.14/	2.2	1.9	1.8
		Pdh (declared heating cap)	kW	23.2	27.9	31.0
	TO	Tbiv (bivalent temperature)	°C		-10	10
	TOL	COPd (declared COP)		2.2	1.9	1.8
		Pdh (declared heating cap)	kW	23.2	27.9	31.0
		Tol (temperature operating	°C		-10	
		limit)		2.6	2.4	
pace heating	A Con-	COPd (declared COP)		2.6	2.4	2.1
Average climate)	dition	Pdh (declared heating cap)	kW	20.5	24.7	27.4
ecommended	(-7°C)					
ombination 3	D.C. ''	COD4(4) 1 (CCC)		25		
pace heating		COPd (declared COP)		3.5	3.7	3.6
Average climate)		Pdh (declared heating cap)	kW	12.5	15.0	16.7
ecommended		COPd (declared COP)		6.2	6.5	6.3
ombination 3		Pdh (declared heating cap)	kW	8.0	9.7	10.7
	D Con-	COPd (declared COP)		8.6		3.7
	dition	Pdh (declared heating cap)	kW	4.9	6	.9
	(12°C)					1
	TBivalent	COPd (declared COP)		2.2	1.9	1.8
		Pdh (declared heating cap)	kW	23.2	27.9	31.0
		Tbiv (bivalent temperature)	°C		-10	
	TOL	COPd (declared COP)		2.2	1.9	1.8
		Pdh (declared heating cap)	kW	23.2	27.9	31.0
		Tol (temperature operating	°C		-10	
		limit)				
apacity range			HP	16	18	20
ED	Category				Category II	
	Most	Name			Accumulator	
	critical	Ps*V	Bar*l	415	4	93
	part					
Aaximum numbe	r of connect	table indoor units			64 (3)	
ndoor index	Min.			200.0	225.0	250.0
onnection	Max.			520.0	585.0	650.0
Dimensions	Unit	Height	mm		1,685	
		Width	mm		1,240	
		Depth	mm		765	
	Packed	Height	mm		1,820	
	unit	Width	mm		1,305	
		Depth	mm		860	
Veight	Unit		kg	281		14
	Packed u	nit	kg	302		35
acking	Material		ing	502	Carton	
acking	Weight		kg		5.7	
acking 2	Material		NY		Wood	
acking z			ka		14.7	
acting 2	Weight		kg			
acking 3	Material				Plastic	
·!	Weight		kg		0.7	
asing	Colour				lvory white	
	Material				Painted galvanized steel plate	
eat exchanger	Туре				Cross fin coil	
	Indoor sid				Air	
leat exchanger	Outdoor				Air	1
	Air flow	Cooling Rated	m³/h	15,600	15,060	15,660
	rate	Heating Rated	m³/h	15,600	15,060	15,660
an	Quantity				2	
	External	Max.	Pa		78	
	static					
	pressure					
an motor	pressure Quantity				2	
Fan motor					2 DC motor	



2 - 1 Specifications

Technical Spe	cificatio	ns			RXYQ16U5	RXYQ18U5	RXYQ20U5			
Compressor	Quantity					2				
	Туре				F	lermetically sealed scroll compress	or			
	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	85.6 (4)	83.8 (4)	87.9 (4)			
	Heating	Prated,h		dBA	86.5 (4)	85.3 (4)	89.8 (4)			
Sound pressure level	Cooling	Nom.		dBA	63.0 (5)	62.0 (5)	65.0 (5)			
Refrigerant	Туре					R-410A				
	GWP				2,087.5					
	Charge			kg	11.3	11.7	11.8			
Refrigerant oil	Туре					Synthetic (ether) oil FVC68D				
Piping connections	Liquid	Туре				Braze connection				
		OD		mm	12.7	15	5.9			
	Gas	Туре			Braze connection					
		OD		mm		28.6				
	Total	System	Actual	m		1,000 (6)				
	piping length									
Defrost method						Reversed cycle				
Capacity control	Method					Inverter controlled				
Indication if the hea	ater is equi	pped with	a supplemen	tary 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	0.077	0.0	089			
	Off mode	Coolina	POFF	kW	0.074	0.0)75			
		Heating	POFF	kW	0.077)89			
	Standby	Cooling	PSB	kW	0.074		075			
	mode	Heating	PSB	kW	0.077)89			
Power consump-	Thermo-	J	PTO	kW		0.010				
tion in other than active mode	stat-off mode	Heating	РТО	kW	0.097		098			
Cooling		radation co	ooling)			0.25				
Heating		radation h				0.25				
Safety devices	ltem	01	,			High pressure switch				
	-	02				Fan driver overload protector				
		03				Inverter overload protector				
		04				PC board fuse				
		05				Leakage current detector				

Standard accessories: Installation manual;Quantity: 1;

Standard accessories: Operation manual;Quantity: 1;

Standard accessories: Connection pipes;Quantity: 1;

Electrical Sp	ecifications		RXYQ8U5	RXYQ10U5	RXYQ12U5	RXYQ14U5				
Power supply	Name			Y	1					
	Phase			3N	~					
	Frequency	Hz		50)					
	Voltage	V	380-415							
Power supply intake			Both indoor and outdoor unit							
/oltage range	Min.	%	-10							
	Max.	%		10)					
Current	Nominal Cooling	A	7.2 (7)	10.2 (7)	12.7 (7)	15.4 (7)				
	running									
	current									
	(RLA)									

2 - 1 Specifications

Electrical Sp	ecificatio	ons		RXYQ8U5	RXYQ10U5	RXYQ12U5	RXYQ14U5		
Current - 50Hz		Combina- Cooling tion A				-	· · · ·		
	current (RLA)	Combina- Cooling tion B			-				
	Starting o	current (MSC) - remark			See n	ote 8			
	Zmax	List			No requi	rements			
	Minimum	n Ssc value	kVa	4,050 (9)	5,535 (9)	6,038 (9)	6,793 (9)		
	Minimum	n circuit amps (MCA)	A	16.1 (10)	22.0 (10)	24.0 (10)	27.0 (10)		
	Maximun	n fuse amps (MFA)	A	20 (11)	25 (11)	32	(11)		
	Full load amps (FLA)	Total	A	1.2 (12)	1.3 (12)	1.5 (12)	1.8 (12)		
Power Perfor-	Power	Combina- 35°C ISO - Ful	load	-					
mance	factor	tion B 46°C ISO - Ful	lload	- ·					
nance Viring connec- ions - 50Hz	For power supply	Quantity		5G					
	For	Quantity		2					
	connec- tion with indoor	Remark			F1,	F2			

Electrical Sp	ecifications		RXYQ16U5	RXYQ18U5	RXYQ20U5			
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				
Current	Nominal Cooling running current (RLA)	A	18.0 (7)	20.8 (7)	26.9 (7)			
	Nominal Combina- Cooling running tion A		-					
	current Combina- Cooling (RLA) tion B		-					
	Starting current (MSC) - remark			See note 8				
	Zmax List			No requirements				
	Minimum Ssc value	kVa	7,547 (9)	8,805 (9)	9,812 (9)			
	Minimum circuit amps (MCA)	A	31.0 (10)	35.0 (10)	39.0 (10)			
	Maximum fuse amps (MFA)	A	40 (11) 50 (11)					
	Full load Total amps (FLA)	A		2.6 (12)				
Power Perfor-	Power Combina- 35°C ISO - Fu	ll load		-				
mance	factor tion B 46°C ISO - Fu	III load		-				
Wiring connec- tions - 50Hz	For Quantity power supply		5G					
	For Quantity			2				
	connec- tion with indoor			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)MSC means the maximum current during start up of the compressor. This unit uses only inverter compressors. Starting current is always ≤ max. running current. | (9)n 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 wih Ssc ≥ minimum Ssc value | (10)MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current. |

(11)MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). | (12)FLA means the nominal running current of the fan |

(13)Maximum allowable voltage range variation between phases is 2%. | (14)Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits. |

(15)The AUTOMATIC ESEER value corresponds with normal VRV4 Heat Pump operation, taking into account advanced energy saving operation functionality (variable refrigerant temperature) | (16)The STANDARD ESEER value corresponds with normal VRV4 Heat Pump operation, not taking into account advanced energy saving operation functionality |

(17)Sound values are measured in a semi-anechoic room. [(18)Soundpressure system [dBA] = $10^{\circ}\log[10^{(A/10)+10^{(B/10)+10^{(C/10)}}]$, with Unit A = A dBA, Unit B = B dBA, Unit C = C dBA | (19)SULCE 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 |

(20)Ssc: Short-circuit power

(21)For detailed contents of standard accessories, see installation/operation manual | (22)Multi combination (22~54HP) data is corresponding with the standard multi combination



2 - 1 Specifications

	cifications System		RXYQ22U5	RXYQ24U5	RXYQ26U5	RXYQ28U5	RXYQ30U5
System	Outdoor unit module 1		RXYQ10U	RXYQ8U		RXYQ12U	
	Outdoor unit module 2		RXYQ12U	RXYQ16U	RXYQ14U	RXYQ16U	RXYQ18U
Recommended cor	mbination			4 x FXFQ50AVEB + 4			
			x FXFQ63AVEB	x FXFQ63AVEB + 2 x FXFQ80AVEB	x FXFQ63AVEB	x FXFQ63AVEB + 2 x FXFQ80AVEB	x FXFQ63AVEB
Recommended cor	mbination 2		6 x FXSQ50A2VEB +	4 x FXSQ50A2VEB +	7 x FXSQ50A2VEB +	6 x FXSQ50A2VEB +	9 x FXSQ50A2VEB
			4 x FXSQ63A2VEB	4 x FXSQ63A2VEB + 2 x FXSQ80A2VEB	5 x FXSQ63A2VEB	4 x FXSQ63A2VEB + 2 x FXSQ80A2VEB	5 x FXSQ63A2VEB
Recommended cor	mbination 3		6 x FXMO50P7VEB +	4 x FXMQ50P7VEB +	7 x FXMO50P7VEB +		9 x FXMO50P7VEB
				4 x FXMQ63P7VEB +		4 x FXMQ63P7VEB +	
				2 x FXMQ80P7VEB		2 x FXMQ80P7VEB	
Cooling capacity	Prated,c	kW	61.5 (1)	67.4 (1)	73.5 (1)	78.5 (1)	83.9 (1)
Heating capacity	Nom. 6°CWB	kW	61.5 (2)	67.4 (2)	73.5 (2)	78.5 (2)	83.9 (2)
	Prated,h	kW	61.5 (2)	67.4 (2)	73.5 (2)	78.5 (2)	83.9 (2)
	Max. 6°CWB	kW	69.0 (2)	75.0 (2)	82.5 (2)	87.5 (2)	94.0 (2)
Power input - 50Hz	Heating Nom. 6°CWB	kW	17.23 (2)	17.94 (2)	20.33 (2)	22.19 (2)	23.87 (2)
COP at nom.	6°CWB	kW/kW	3.57 (2)	3.76 (2)	3.61 (2)	3.54 (2)	3.51 (2)
capacity							
ESEER - Automatic			7.07	6.81	6.89	6.69	6.60
ESEER - Standard			5.58	5.42	5.39	5.23	5.17
SCOP			4.4	4.3	1	.2	4.3
SCOP recommende			4.4	4.3		.2	4.3
SCOP recommende	ed combination 3		4.3		4.2		4.3
SEER			6.9	6.8	6.7		.5
SEER recommende	d combination 2		6.7	6.6	6.5	6	.3
SEER recommende	d combination 3		6.9	6.7	6.6	6.4	6.5
ηs,c		%	274.5	269.9	264.2	257.8	256.8
ηs,h		%	171.2	167.0	164.6	166.0	169.8
Space cooling	A Condi- EERd		2.6	2.5	2.6	2.3	2.1
	tion (35°C Pdc - 27/19)	kW	61.5	67.4	73.5	78.5	83.9
	B Condi- EERd		4.8	4	.6	4.4	4.3
	tion (30°C Pdc	kW	45.3	49.7	54.2	57.8	61.8
	- 27/19)						
	C Condi- EERd		8.5	8.6	8.2	8.1	8.2
	tion (25°C Pdc	kW	29.1	31.9	34.8	37.2	39.7
	- 27/19)						
	D Condi- EERd		16.0	15.2	14.2	14.3	16.8
	tion (20°C Pdc	kW	18.8	15.8	16.2	16.5	21.0
	- 27/19)						
Space cooling	A Condi- EERd		2.6	2.4	2.6	2.3	2.1
recommended combination 2	tion (35°C Pdc - 27/19)	kW	61.5	67.4	73.5	78.5	83.9
	B Condi- EERd		4.6	4.5	4.4	4.3	4.2
	tion (30°C Pdc	kW	45.3	49.7	54.1	57.8	61.8
	- 27/19)		13.5		51.1	57.0	01.0
	C Condi- EERd		8.2	8.4	7.9	7.8	7.9
	tion (25°C Pdc	kW	29.1	31.9	34.8	37.2	39.7
	- 27/19)						
	D Condi- EERd		15.6	14.7	13.6	13.8	16.1
	tion (20°C						
	- 27/19)						
Space cooling	D Condi- Pdc	kW	18.4	15.4	15.7	16.5	20.5
recommended	tion (20°C						
combination 2	- 27/19)						
Space cooling	A Condi- EERd			2.5		2.3	2.1
recommended	tion (35°C Pdc	kW	61.5	67.4	73.5	78.5	83.9
combination 3	- 27/19)						
	B Condi- EERd		4.8	4	.5	4	.3
	tion (30°C Pdc	kW	45.3	49.7	54.2	57.8	61.8
	- 27/19)						
	C Condi- EERd		8.5	8.4	8.1	8.0	8.2
	tion (25°C Pdc	kW	29.1	31.9	34.8	37.2	39.7
	- 27/19)						
	D Condi- EERd		15.8	15.2	14.0	14.1	16.6
	tion (20°C Pdc	kW	18.8	15.7	16.0	16.6	21.0
	- 27/19)			1		1	

Technical spe				RXYQ22U5	RXYQ24U5	RXYQ26U5	RXYQ28U5	RXYQ30U
pace heating	TBivalent	COPd (declared COP)		2.3	2.5	2.3	2.2	2.1
Average climate)		Pdh (declared heating cap)	kW	34.4	36.9	39.0	41.6	46.3
		Tbiv (bivalent temperature)	°C			-10		
	TOL	COPd (declared COP)		2.3	2.5	2.3	2.2	2.1
		Pdh (declared heating cap)	kW	34.4	36.9	39.0	41.6	46.3
		Tol (temperature operating limit)	°C			-10		
	A Con-	COPd (declared COP)		2.6	2.8		2.6	
	dition	Pdh (declared heating cap)	kW	30.4	32.6	34.5	36.8	41.0
	(-7°C)			5011	5210	5.15	5010	
	B Condi-	COPd (declared COP)		4.0	3.7	3	.8	3.9
	tion (2°C)	Pdh (declared heating cap)	kW	18.5	19.9	21.0	22.4	24.9
	C Condi-	COPd (declared COP)		6	.3	6.1	6.2	6.5
		Pdh (declared heating cap)	kW	11.9	13.0	13.5	14.4	16.0
	D Con-	COPd (declared COP)		8.2	8.9	8.8		0.0
	dition (12°C)	Pdh (declared heating cap)	kW	6.0	5.7	6.0	6.4	7.1
pace heating	A Con-	COPd (declared COP)		2.6	2.7		2.6	1
Average climate)	dition	Pdh (declared heating cap)	kW	30.4	32.6	34.5	36.8	41.0
ecommended	(-7°C)	· ··· (·······························						
ombination 2		COPd (declared COP)		4.1	3.7	3	.8	3.9
		Pdh (declared heating cap)	kW	18.5	19.9	21.0	22.4	24.9
	C Condi-	COPd (declared COP)		6	.3	6.1	6.3	6.6
	tion (7°C)	Pdh (declared heating cap)	kW	11.9	13	3.1	14.4	16.0
	D Con-	COPd (declared COP)		8.4	9.0	8.9	ç	9.1
	dition	Pdh (declared heating cap)	kW	6.0	5.7	6.0	6.4	7.2
	(12°C)			2.2	2.4	2	2	21
	IBivalent	COPd (declared COP)	1.147	2.2	2.4		.2	2.1
		Pdh (declared heating cap)	kW	34.4	36.9	39.0	41.6	46.3
	TOL	Tbiv (bivalent temperature) COPd (declared COP)	°C	2.2	2.4	-10	.2	2.1
	IUL	Pdh (declared heating cap)	kW	34.4	36.9	39.0	41.6	46.3
		Tol (temperature operating	°C	54.4	50.9	-10	41.0	40.5
		limit)	C			-10		
pace heating	A Con-	COPd (declared COP)		2.6	2.7	2	.6	2.5
Average climate)	dition	Pdh (declared heating cap)	kW	30.4	32.6	34.5	36.8	41.0
commended	(-7°C)	ran (acclared nearing cap)		5011	5210	5 115	5010	
ombination 3	B Condi-	COPd (declared COP)		4.0	3.7	3	.8	3.9
	tion (2°C)	Pdh (declared heating cap)	kW	18.5	19.9	21.0	22.4	24.9
	C Condi-	COPd (declared COP)		6.2	6.3	6.1	6.2	6.3
	tion (7°C)	Pdh (declared heating cap)	kW	11.9	12.9	13.5	14.4	16.0
	D Con-	COPd (declared COP)		8.2	8.9	8.8	9.0	8.6
	dition	Pdh (declared heating cap)	kW	6.0	5.7	6.0	6.4	7.1
	(12°C)	COPd (declared COP)		2.3	2.4	2	.2	2.1
	ibivalent	Pdh (declared heating cap)	kW	34.4	36.9	39.0	.2 41.6	46.3
		Tbiv (bivalent temperature)	°C	54.4	50.7	-10	1.0	40.5
	TOL	COPd (declared COP)	~	2.3	2.4		.2	2.1
		Pdh (declared heating cap)	kW	34.4	36.9	39.0	41.6	46.3
		Tol (temperature operating		5	2013	-10		1010
apacity range		limit)	HP	22	24	26	28	30
ED	Category					Category II		
1aximum number		able indoor units				64 (3)		
ndoor index	Min.			275.0	300.0	325.0	350.0	375.0
onnection	Max.			715.0	780.0	845.0	910.0	975.0
eat exchanger	Indoor sic	e				Air		
	Outdoor s	ide				Air		
	Air flow	Cooling Rated	m³/h	21,600	25,320	24,480	26,700	26,160
	rate	Heating Rated	m³/h	21,600	25,320	24,480	26,700	26,160
ound power level	Cooling	Nom.	dBA	84.8 (4)	86.3 (4)	85.3 (4)	87.6 (4)	86.6 (4)
	Heating	Prated,h	dBA	85.4 (4)	87.3 (4)	86.3 (4)	88.3 (4)	87.5 (4)
	C 11	Nom.	dBA	62.5 (5)	64.0 (5)	63.5 (5)	65.1 (5)	64.5 (5)
	Cooling					1		1
vel								
ound pressure evel efrigerant	Type GWP					R-410A 2,087.5		



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Specifications Specifications 2

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Technical spe	echnical specifications System					RXYQ24U5	RXYQ26U5	RXYQ28U5	RXYQ30U5		
Piping connections	5 Liquid	Туре					Braze connection				
		OD		mm	15	.9		19.1			
	Gas	Туре					Braze connection				
		OD		mm	28.6		34.9				
	Total piping length	System	Actual	m			1,000 (6)				
Indication if the he	ater is equi	pped with	a supplemer	ntary heater			no				
Supplementary heater	Back-up capacity	Heating	elbu	kW			0.0				
Power consump- tion in other than active mode	Crank- case heater mode	Cooling	РСК	kW			0.000				
Power consump- tion in other than active mode	Crank- case heater mode	Heating	РСК	kW	0.103		0.129		0.141		
	Off mode	Cooling	POFF	kW	0.081		0.115		0.116		
		Heating	POFF	kW	0.103		0.129		0.141		
	Standby	Cooling	PSB	kW	0.081		0.115		0.116		
	mode	Heating	PSB	kW	0.103		0.129		0.141		
	Thermo-	Cooling	PTO	kW	0.009		0.0)14			
	stat-off mode	Heating	ΡΤΟ	kW	0.113		0.154		0.155		
Cooling	Cdc (Degi	radation c	ooling)		0.25						
leating Cdh (Degradation heating)					0.25						

Technical spe	cifications Syst	em	RXYQ32U5	RXYQ34U5	RXYQ36U5	RXYQ38U5	RXYQ40U5
System -	Outdoor unit modu			RXYQ16U		RXYQ8U	RXYQ10U
	Outdoor unit modu	le 2	RXYQ16U	RXYQ18U	RXYQ20U	RXYQ10U	RXYQ12U
	Outdoor unit modu	lle 3		-		RXYQ20U	RXYQ18U
Recommended co	mbination		8 x FXFQ63AVEB + 4	3 x FXFQ50AVEB + 9	2 x FXFQ50AVEB +	6 x FXFQ50AVEB +	9 x FXFQ50AVEB + 9
			x FXFQ80AVEB	x FXFQ63AVEB + 2 x FXFQ80AVEB	10 x FXFQ63AVEB + 2 x FXFQ80AVEB	10 x FXFQ63AVEB	x FXFQ63AVEB
Recommended co	mbination 2		8 x FXSQ63A2VEB +	3 x FXSQ50A2VEB +	2 x FXSQ50A2VEB +	6 x FXSQ50A2VEB +	9 x FXSQ50A2VEB +
			4 x FXSQ80A2VEB	9 x FXSQ63A2VEB + 2 x FXSQ80A2VEB	10 x FXSQ63A2VEB + 2 x FXSQ80A2VEB	10 x FXSQ63A2VEB	9 x FXSQ63A2VEB
Recommended co	mbination 3			9 x FXMQ63P7VEB +	2 x FXMQ50P7VEB + 10 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	10 x FXMQ63P7VEB	
Cooling capacity	Prated,c	kW	90.0 (1)	95.4 (1)	97.0 (1)	102.4 (1)	111.9 (1)
Heating capacity	Nom. 6°CWB	kW	90.0 (2)	95.4 (2)	101.0 (2)	106.4 (2)	111.9 (2)
	Prated,h	kW	90.0 (2)	95.4 (2)	101.0 (2)	106.4 (2)	111.9 (2)
	Max. 6°CWB	kW	100.0 (2)	106.5 (2)	113.0 (2)	119.5 (2)	125.5 (2)
Power input - 50Hz	Heating Nom.	6°CWB kW	25.08 (2)	26.76 (2)	30.02 (2)	30.45 (2)	31.45 (2)
COP at nom. capacity	6°CWB	kW/kW	3.59 (2)	3.56 (2)	3.36 (2)	3.49 (2)	3.56 (2)
ESEER - Automatic			6.50	6.44	6.02	6.36	6.74
ESEER - Standard			5.05	5.01	4.68	5.03	5.29
SCOP			4	1.2	4.1	4	.3
SCOP recommend	ed combination 2		4.2	4.3	4.2	4.3	4.4
SCOP recommend	ed combination 3		4.1	4.2	4.1	4.2	4.3
SEER			6	5.4	6.3	6.9	6.7
SEER recommende	d combination 2			6.3		6.8	6.6
SEER recommende	d combination 3		6.2	6	5.3	6.9	6.7
ηs,c		%	251.7	253.3	250.8	272.4	263.5
ηs,h		%	163.1	166.2	162.4	167.5	170.0
Space cooling	A Condi- EERd		2.3	2	2.1	2.4	2.2
	tion (35°C Pdc - 27/19)	kW	90.0	95.4	97.0	102.4	111.9
	B Condi- EERd		4.3	4.2	4.1	4	.5
	tion (30°C Pdc - 27/19)	kW	66.3	70.3	71.5	75.5	82.5
	C Condi- EERd		8	3.1	7.9	8.5	8.3
	tion (25°C Pdc - 27/19)	kW	42.6	45.2	45.9	48.5	53.0
	D Condi- EERd		14.3	16.8	16.7	17.9	16.0
	tion (20°C Pdc - 27/19)	kW	19.0	20.1	20.4	21.6	23.6

Technical spe				RXYQ32U5	RXYQ34U5	RXYQ36U5	RXYQ38U5	RXYQ40U
pace cooling	A Condi-			2.2		2.1	2.3	2.2
ecommended	tion (35°C	Pdc	kW	90.0	95.4	97.0	102.4	111.9
combination 2	- 27/19) B Condi-	EEDd			.2	4.1	4.5	4.4
	tion (30°C		kW	66.3	70.3	71.5	75.4	82.4
	- 27/19)	ruc	K V V	00.5	70.5	/1.5	75.4	02.4
	C Condi-	EERd		8.0	8.1	7.9	8.4	8.1
	tion (25°C		kW	42.6	45.2	45.9	48.5	53.0
	- 27/19)			1210	1512	1515	1010	5510
Space cooling	D Condi-	EERd		14.0	16	5.5	17.8	15.9
recommended	tion (20°C		kW	18.9	20.1	20.4	21.6	23.6
combination 2	- 27/19)							
Space cooling	A Condi-	EERd		2.2	2	2.1	2.4	2.2
recommended	tion (35°C	Pdc	kW	90.0	95.4	97.0	102.4	111.9
combination 3	- 27/19)							
	B Condi-				1.1	4.0	4.5	4.4
	tion (30°C	Pdc	kW	66.3	70.3	71.5	75.5	82.5
	- 27/19)	550.1						
	C Condi-		1.147	7.8	8.0	7.8	8.5	8.4
	tion (25°C	Ρας	kW	42.6	45.2	45.9	48.5	53.0
	- 27/19) D Condi-	FERA		12 0	16.6	16 5	17.9	16.1
	tion (20°C		kW	13.8 19.0	16.6 20.1	16.5 20.4		16.1 23.6
	- 27/19)	FUL	KVV	19.0	20.1	20.4	21.6	23.0
Space heating		COPd (declared COP)		2.4	2.2	2.1	2	
Average climate)	TDIVUICIIC	Pdh (declared heating cap)	kW	46.4	51.1	54.2	60.7	62.3
, trendge ennate,		Tbiv (bivalent temperature)		10.1	51.1	-10	00.7	02.5
	TOL	COPd (declared COP)		2.4	2.2	2.1	2	2
	ICL	Pdh (declared heating cap)	kW	46.4	51.1	54.2	60.7	62.3
	Tol (temperature operati		°C			-10		
		limit)						
	A Con-	COPd (declared COP)		2.7	2.6	2	2.5	2.6
	dition	Pdh (declared heating cap)	kW	41.0	45.2	47.9	53.7	55.1
	(-7°C)							
	B Condi-	COPd (declared COP)		3.6	3	.7	3.9	4.0
	tion (2°C)	Pdh (declared heating cap)	kW	25.0	27.5	29.2	32.7	33.5
		COPd (declared COP)		6.3	6.5	6.4	6	.5
		Pdh (declared heating cap)	kW	16.1	17.7	18.8	21.3	21.6
	D Con-	COPd (declared COP)		9.0	8.8	8.6		3.7
	dition	Pdh (declared heating cap)	kW	7.1	7.9	8.3	1:	3.1
	(12°C)	COD 1/1 1 1 2000				-		
Space heating	A Con-	COPd (declared COP)	1.147	2.7	2.6		2.5	2.6
Average climate)	dition	Pdh (declared heating cap)	kW	41.0	45.2	47.9	53.7	55.1
ecommended combination 2	(-7°C)	COPd (declared COP)		26	20	27	20	4.0
		Pdh (declared heating cap)	kW	3.6 25.0	3.8 27.5	3.7 29.2	3.9 32.7	4.0
		COPd (declared COP)	K V V	6.3	6.6	29.2	6.5	55.5
		Pdh (declared heating cap)	kW	16.1	17.7	18.8	21.3	21.6
	D Con-	COPd (declared COP)	K V V	9.1	8.9	10.0	8.8	21.0
	dition	Pdh (declared heating cap)	kW	7.1	7.9	8.3		3.2
	(12°C)	i an (acciaica neating cap)	1	/.1	1.2	0.5		··-
		COPd (declared COP)		2.4	2	.2	2.3	2.2
		Pdh (declared heating cap)	kW	46.4	51.1	54.2	60.7	62.3
		Tbiv (bivalent temperature)				-10		
	TOL	COPd (declared COP)	-	2.4	2	.2	2.3	2.2
		Pdh (declared heating cap)	kW	46.4	51.1	54.2	60.7	62.3
Space heating (Average climate) recommended combination 2	TOL	Tol (temperature operating limit)	°C			-10		

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Technical spee					RXYQ32U5	RXYQ34U5	RXYQ36U5	RXYQ38U5	RXYQ40U
Space heating	A Con-	COPd (de	clared COP)		2.7	2.6	2.4	2.5	2.6
(Average climate) recommended	dition (-7°C)	Pdh (decl	ared heating cap)	kW	41.0	45.2	47.9	53.7	55.1
combination 3	B Condi-	COPd (de	clared COP)		3.6	3.7	3.6	3.8	3.9
	tion (2°C)	Pdh (decl	ared heating cap)	kW	25.0	27.5	29.2	32.7	33.5
	C Condi-	COPd (de	clared COP)		6.3	6.4	6	.3	6.4
	tion (7°C)		ared heating cap)	kW	16.1	17.7	18.8	21.2	21.6
	D Con-	COPd (de	clared COP)		9.0	8.9	8.3	8.5	8.4
	dition (12°C)	Pdh (decl	ared heating cap)	kW	7.1	7.9	8.3	12.9	12.8
	TBivalent	COPd (de	clared COP)		2.4	2.2	2.1	2	.2
		Pdh (decl	ared heating cap)	kW	46.4	51.1	54.2	60.7	62.3
		Tbiv (biva	alent temperature)	°C			-10		
	TOL	COPd (de	clared COP)		2.4	2.2	2.1	2	.2
		Pdh (decl	ared heating cap)	kW	46.4	51.1	54.2	60.7	62.3
		Tol (temp limit)	erature operating	°C		1	-10	1	
Capacity range		,		HP	32	34	36	38	40
PED	Category						Category II		
Maximum number	of connect	able indo	or units				64 (3)		
Indoor index	Min.				400.0	425.0	450.0	475.0	500.0
connection	Max.				1,040.0	1,105.0	1,170.0	1,235.0	1,300.0
Heat exchanger	Indoor sid	le					Air		
	Outdoor s						Air		
	Air flow	Cooling	Rated	m³/h	31,200	30,660	31,260	35,880	36,660
	rate	Heating	Rated	m³/h	31,200	30,660	31,260	35,880	36,660
Sound power level		Nom.		dBA	88.6 (4)	87.8 (4)	89.9 (4)	88.8 (4)	87.3 (4)
sound power lever	Heating	Prated,h		dBA	89.5 (4)	88.9 (4)	91.5 (4)	90.7 (4)	88.4 (4)
Sound pressure level	Cooling	Nom.		dBA	66.0 (5)	65.5 (5)	67.1 (5)	66.2 (5)	65.2 (5)
Refrigerant	Туре						R-410A		
	GWP						2,087.5		
Refrigerant oil	Туре					Syn	thetic (ether) oil FVC	68D	
Piping connections	Liquid	Туре					Braze connection		
		OD		mm			19.1		
	Gas	Туре					Braze connection		
		OD		mm	34	4.9		41.3	
	Total piping length	System	Actual	m			1,000 (6)		
Indication if the hea	ater is equi	pped with	a supplementary l	neater			no		
Supplementary heater	Back-up capacity			kW			0.0		
Power consump-	Crank-	Cooling	РСК	kW			0.000		
tion in other than active mode	case heater mode	Heating	РСК	kW	0.154	0.1	66	0.1	92
	Off mode	Cooling	POFF	kW	0.149	01	150	01	57
	Shimode	Heating	POFF	kW	0.149		66		92
	Standby	Cooling	POFF	kW	0.154		150		92 57
	mode		PSB		1				
	mode Thermo-	Heating		kW	0.154	0.1	66	0.1	92
	stat-off	Heating	PTO PTO	kW kW	0.195	0.1	0.019	0.2	211
Cooling	mode	adati	ooling)				0.25		
Cooling Heating	Cdc (Degr Cdh (Degr		V .				0.25 0.25		
Technical spee	rificatio	ns Svet	em		RXYQ42U5	RXYQ44U5	RXYQ46U5	RXYQ48U5	RXYQ50U
System	Outdoor u				RXYQ10U	RXYQ12U	RXYQ14U		216U
System		unit modu			10/10/00		RXYQ14U RXYQ16U		2.00

System	Outdoor unit module 1		RXYQ10U	RXYQ12U	RXYQ14U	RXY	Q16U			
	Outdoor unit module 2		RXYQ16U							
	Outdoor unit module 3			RXYO	Q16U		RXYQ18U			
Recommende	d combination		12 x FXFQ63AVEB +	6 x FXFQ50AVEB + 8	1 x FXFQ50AVEB +	12 x FXFQ63AVEB +	3 x FXFQ50AVEB +			
			4 x FXFQ80AVEB	x FXFQ63AVEB + 4 x	13 x FXFQ63AVEB +	6 x FXFQ80AVEB	13 x FXFQ63AVEB +			
				FXFQ80AVEB	4 x FXFQ80AVEB		4 x FXFQ80AVEB			
Recommende	d combination 2		12 x FXSQ63A2VEB	6 x FXSQ50A2VEB +	1 x FXSQ50A2VEB +	12 x FXSQ63A2VEB	3 x FXSQ50A2VEB +			
			+ 4 x FXSQ80A2VEB	8 x FXSQ63A2VEB +	13 x FXSQ63A2VEB	+ 6 x FXSQ80A2VEB	13 x FXSQ63A2VEB			
				4 x FXSQ80A2VEB	+ 4 x FXSQ80A2VEB		+ 4 x FXSQ80A2VEB			
Recommende	d combination 3		12 x FXMQ63P7VEB	6 x FXMQ50P7VEB +	1 x FXMQ50P7VEB +	12 x FXMQ63P7VEB	3 x FXMQ50P7VEB +			
			+ 4 x FXMQ80P7VEB	8 x FXMQ63P7VEB +	13 x FXMQ63P7VEB	+ 6 x FXMQ80P7VEB	13 x FXMQ63P7VEB			
				4 x FXMQ80P7VEB	+ 4 x FXMQ80P7VEB		+ 4 x FXMQ80P7VEB			
Cooling capac	ity Prated,c	kW	118.0 (1)	123.5 (1)	130.0 (1)	135.0 (1)	140.4 (1)			

Technical spe				RXYQ42U5	RXYQ44U5	RXYQ46U5	RXYQ48U5	RXYQ50U5
Heating capacity	Nom.	6°CWB	kW	118.0 (2)	123.5 (2)	130.0 (2)	135.0 (2)	140.4 (2)
	Prated,h		kW	118.0 (2)	123.5 (2)	130.0 (2)	135.0 (2)	140.4 (2)
	Max.	6°CWB	kW	131.5 (2)	137.5 (2)	145.0 (2)	150.0 (2)	156.5 (2)
ower input - 50Hz	Heating	Nom. 6°CWB	kW	32.66 (2)	34.73 (2)	35.77 (2)	37.62 (2)	39.30 (2)
COP at nom. capacity	6°CWB		kW/kW	3.61 (2)	3.56 (2)	3.63 (2)	3.59 (2)	3.57 (2)
SEER - Automatic				6.65	6.62	6.60	6.50	6.46
SEER - Standard				5.19	5.17	5.13	5.05	5.02
COP				4	.2	4	.1	4.2
COP recommende	ed combina	ation 2		4.3		4	.2	
COP recommende	ed combina	ation 3		4	l.2	4	.1	4.2
SEER				6.6	6.5		6.4	
SEER recommende	d combina	tion 2		6.6	6.3	6.4	6	.3
SEER recommende	d combina	tion 3		6.5	6	.3	6.2	6.3
յs,c			%	261.2	255.9	254.9	251.7	252.8
js,h			%	165.5	164.5	162.0	162.8	165.2
pace cooling	A Condi-	EERd			2.3	2.4	2.3	2.1
	tion (35°C		kW	118.0	123.5	130.0	135.0	140.4
	- 27/19)							
	B Condi-	EERd			4.4		4.3	4.2
	tion (30°C		kW	86.9	91.0	95.8	99.5	103.4
	- 27/19)							
	C Condi-	EERd		8.2			.1	
	tion (25°C		kW	55.9	58.5	61.6	64.0	66.5
	- 27/19)			55.5		0.00	0.10	
	D Condi-	EERd		15.4	14.4	14	l.3	15.9
	tion (20°C		kW	24.8	26.0	27.4	28.4	29.6
	- 27/19)	. Tac	NVV	21.0	20.0	27.1	20.1	29.0
pace cooling	A Condi-	FEBd			2.3		2.2	2.1
ecommended	tion (35°C		kW	118.0	123.5	130.0	135.0	140.4
ombination 2	- 27/19)	Tuc	KVV	110.0	125.5	150.0	155.0	
ombination2	B Condi-	FERd		4.4	4	.3	4	.2
	tion (30°C		kW	86.9	91.0	95.8	99.5	103.5
	- 27/19)	. ruc	r.vv	00.9	91.0	95.0	99.5	105.5
	C Condi-	FERd		8.2	7.9	8.1	9	.0
	tion (25°C		kW	55.9	58.5	61.6	63.9	66.5
	- 27/19)	Tuc	r.vv	55.9	50.5	01.0	05.9	00.5
pace cooling	D Condi-	FERd		15.3		14.0		15.6
ecommended	tion (20°C		kW	24.8	26.0	27.4	28.4	29.6
combination 2	- 27/19)	. ruc	r.vv	24.0	20.0	27.4	20.4	29.0
Space cooling	A Condi-	FERd			2.3		2.2	2.1
recommended	tion (35°C		kW	118.0	123.5	130.0	135.0	140.4
combination 3	- 27/19)	Fuc	ĸvv	110.0	125.5	150.0	155.0	140.4
ombination 5	B Condi-	EED4			l.3	4.2		.1
	tion (30°C		L\\/					
	- 27/19)	. rul	kW	87.0	91.0	95.8	99.5	103.5
		EEDd		0 0		0	70	70
	C Condi-		k\\/	8.0		.9	7.8	7.9
	tion (25°C - 27/19)	Ful	kW	55.9	58.5	61.6	63.9	66.5
		EEDd		15.0	14.2	12.0	12.0	15 (
	D Condi-		1.147	15.2	14.2	13.9	13.8	15.6
	tion (20°C	. ruC	kW	24.8	26.0	27.4	28.4	29.6
an an la satte a	- 27/19)			2.4	2.2		4	2.2
pace heating	IBIVAlent	COPd (declared COP)	1.14/	2.4	2.3		.4	2.3
Average climate)		Pdh (declared heating cap)	kW	62.4	64.8	67.0	69.6	74.3
	TO '	Tbiv (bivalent temperature)	°C			-10	4	0.5
	TOL	COPd (declared COP)		2.4	2.3		.4	2.3
		Pdh (declared heating cap)	kW	62.4	64.8	67.0	69.6	74.3
		Tol (temperature operating	°C			-10		
		limit)						
	A Con-	COPd (declared COP)			1	2.7	1	1
	dition	Pdh (declared heating cap)	kW	55.2	57.3	59.3	61.6	65.7
	(-7°C)							
	B Condi-	COPd (declared COP)		3	3.7	3	.6	3.7
	tion (2°C)	Pdh (declared heating cap)	kW	33.6	34.9	36.1	37.5	40.0
	C Condi-	COPd (declared COP)		6	5.3	6.2	6.3	6.5
	tion (7°C)	Pdh (declared heating cap)	kW	21.6	22.4	23.2	24.1	25.7
	D Con-	COPd (declared COP)			3.6	8.7	8.8	8.9
	dition	Pdh (declared heating cap)	kW	9.9	10.0	10.3	10.7	12.0
		5.00						1



2 - 1 Specifications

Technical spe Space heating	A Con-	COPd (decla			RXYQ42U5	RXYQ44U5	RXYQ46U5 2.7	RXYQ48U5	RXYQ50U
(Average climate)	A Con- dition		ed heating cap)	kW	55.2	57.3	59.3	61.6	65.7
recommended	(-7°C)	i un (acciare	culled ing cup)		55.2	57.5	55.5	01.0	05.7
combination 2	B Condi-	COPd (decla	ared COP)		3	.7	3	8.6	3.7
	tion (2°C)	Pdh (declare	ed heating cap)	kW	33.6	34.9	36.1	37.5	40.0
	C Condi-	COPd (decla	ared COP)		6.4		6.3		6.5
			ed heating cap)	kW	21.6	22.4	22.8	24.1	25.7
	D Con-	COPd (decla	,		8		8.8	8.9	9.0
	dition	Pdh (declare	ed heating cap)	kW	10	.0	10.3	10.7	12.2
	(12°C)	CODI//I			2.4	2.2			2.2
	IBivalent	COPd (declar	ed heating cap)	kW	2.4	2.3 64.8	67.0	69.6	2.3 74.3
			nt temperature)	°C	02.4	04.0	-10	09.0	/4.5
	TOL	COPd (decla		C	2.4	2.3		2.4	2.3
	IUL		ed heating cap)	kW	62.4	64.8	67.0	69.6	74.3
Space heating (Average climate) recommended	TOL		ature operating	°C			-10		
combination 2									
Space heating	A Con-	COPd (decla	ared COP)		2.7	2.6	2	2.7	2.6
(Average climate)	dition		ed heating cap)	kW	55.2	57.3	59.3	61.6	65.7
recommended combination 3	(-7°C) B Condi-	COPd (decla	ared COP)		3	7		3.6	<u> </u>
			ed heating cap)	kW	33.6	./ 34.9	36.1	3.6	40.0
		COPd (declare		NVV	6.3		30.1 5.2	6.3	6.4
			ed heating cap)	kW	21.6	22.4	23.2	24.1	25.7
	D Con-	COPd (decla			8		8.7	8.8	8.7
	dition		ed heating cap)	kW	9.9	10.0	10.3	10.7	11.8
	(12°C) TBivalent	COPd (decla	ared COP)		2.4	2.3	2	2.4	2.2
	. Diffuicité		ed heating cap)	kW	62.4	64.8	67.0	69.6	74.3
			nt temperature)	°C	0211	0 110	-10	0,10	7 115
	TOL	COPd (decla			2.4	2.3	1	2.4	2.2
			ed heating cap)	kW	62.4	64.8	67.0	69.6	74.3
			ature operating	°C			-10		
Capacity range				HP	42	44	46	48	50
PED	Category				72		Category II	10	50
Maximum number			units				64 (3)		
Indoor index	Min.				525.0	550.0	575.0	600.0	625.0
connection	Max.				1,365.0	1,430.0	1,495.0	1,560.0	1,625.0
Heat exchanger	Indoor sid	de					Air		
	Outdoor	side					Air		
	Air flow		ated	m³/h	41,700	42,300	44,580	46,800	46,260
	rate	J	ated	m³/h	41,700	42,300	44,580	46,800	46,260
Sound power level		Nom.		dBA	89.1 (4)	89.8 (4)	89.3 (4)	90.4 (4)	89.8 (4)
	Heating	Prated,h		dBA	90.1 (4)	90.5 (4)	90.4 (4)	91.3 (4)	90.9 (4)
Sound pressure evel	Cooling	Nom.		dBA	66.5 (5)	67.2 (5)	67.0 (5)	67.8 (5)	67.5 (5)
Refrigerant	Туре						R-410A		
	GWP						2,087.5		
Refrigerant oil	Type	True				Syn	thetic (ether) oil FVC	68D	
Piping connections	s Liquid	Туре					Braze connection		
	Car	OD		mm			19.1		
	Gas	Type OD		mm			Braze connection 41.3		
	Total		ctual	mm m			41.3		
	piping length	System A	ictual				1,000 (0)		
Indication if the he		ipped with a	supplementary h	neater			no		
Supplementary		Heating e		kW			0.0		
neater	capacity								
Power consump-	Crank-	Cooling P	СК	kW			0.000		
ion in other than active mode	case heater mode	Heating P	CK	kW	0.2	06	0.1	231	0.243
		Cooling P	OFF	kW	0.1	90	0.2	223	0.224
			OFF	kW	0.2			231	0.243
	Standby		SB	kW	0.1			223	0.224
								231	0.243
	mode	Heating P	SB	kW	0.2	06	0	201	
	mode Thermo-		TO	kW	0.2		0	0.029	
		Cooling P				24			0.293

Cooling	cifications System Cdc (Degradation cooling)	I	RXYQ42U5 RXYQ44U5 RXYQ4 0.2	
Heating	Cdc (Degradation cooling) Cdh (Degradation heating)		0.2	
leating	cur (Degradation neating)		0.2.	5
Technical spe	ecifications System		RXYQ52U5	RXYQ54U5
System	Outdoor unit module 1		RXYQ16U	RXYQ18U
	Outdoor unit module 2		RXYQ	18U
	Outdoor unit module 3		RXYQ	18U
Recommended co	ombination		6 x FXFQ50AVEB + 14 x FXFQ63AVEB + 2 x	9 x FXFQ50AVEB + 15 x FXFQ63AVEB
Recommended co	ombination 2		FXFQ80AVEB 6 x FXSQ50A2VEB + 14 x FXSQ63A2VEB + 2 x	9 x FXSQ50A2VEB + 15 x FXSQ63A2VEB
Recommended co	ombination 3		FXSQ80A2VEB 6 x FXMQ50P7VEB + 14 x FXMQ63P7VEB + 2 x	9 x FXMQ50P7VEB + 15 x FXMQ63P7VEB
			FXMQ80P7VEB	
Cooling capacity	Prated,c	kW	145.8 (1)	151.2 (1)
leating capacity	Nom. 6°CWB	kW	145.8 (2)	151.2 (2)
	Prated,h	kW	145.8 (2)	151.2 (2)
	Max. 6°CWB	kW	163.0 (2)	169.5 (2)
ower input - 50H	z Heating Nom. 6°CWB	kW	40.98 (2)	42.66 (2)
COP at nom.	6°CWB	kW/kW	3.56 (2)	3.54 (2)
apacity				
SEER - Automatic			6.42	6.38
SEER - Standard			4.99	4.97
SCOP			4.3	
	led combination 2		4.3	
	led combination 2		4.3	
EER				
			6.4	
	ed combination 2		6.4	
EER recommende	ed combination 3		6.4	
s,c		%	253.7	254.1
յs,h		%	167.2	169.4
pace cooling	A Condi- EERd		2.0	1.9
ace cooling	tion (35°C Pdc - 27/19)	kW	145.8	151.2
	B Condi- EERd		4.2	4.1
	tion (30°C Pdc	kW	107.4	111.4
	- 27/19)	L A A	T. T.	111.4
	C Condi- EERd		8.1	
		1.3.47		
	tion (25°C Pdc	kW	69.1	71.6
	- 27/19)			
	D Condi- EERd		17.6	19.1
	tion (20°C Pdc	kW	30.7	34.4
	- 27/19)			
pace cooling	A Condi- EERd		2.0	1.9
ecommended	tion (35°C Pdc	kW	145.8	151.2
combination 2	- 27/19)			
	B Condi- EERd		4.1	
	tion (30°C Pdc	kW	107.4	111.4
	- 27/19)			
	C Condi- EERd		8.1	
	tion (25°C Pdc	kW	69.0	71.6
	- 27/19)	K V V	03.0	/1.0
'nnen enel!			17.4	10.0
Space cooling	D Condi- tion (20%) D L		17.4	18.9
ecommended	tion (20°C Pdc	kW	30.7	34.1
ombination 2	- 27/19)			
pace cooling	A Condi- EERd		2.0	1.9
ecommended	tion (35°C Pdc	kW	145.8	151.2
ombination 3	- 27/19)			
	B Condi- EERd		4.1	
	tion (30°C Pdc	kW	107.4	111.4
	- 27/19)			
	C Condi- EERd		8.0	8.2
	tion (25°C Pdc	kW	69.1	71.6
		r.vv	02.1	/1.0
	- 27/10)			
	- 27/19)		47 5	10.1
	- 27/19) D Condi- <u>EERd</u> tion (20°C Pdc	kW	17.5 30.7	19.1 34.7

Technical spe				RXYQ52U5	RXYQ54U5
Space heating	TBivalent	COPd (declared COP)		2.2	2.1
Average climate)		Pdh (declared heating cap)	kW	79.0	83.7
		Tbiv (bivalent temperature)	°C		-10
	TOL	COPd (declared COP)		2.2	2.1
		Pdh (declared heating cap)	kW	79.0	83.7
		Tol (temperature operating	°C		-10
		limit)			
	A Con-	COPd (declared COP)			2.6
	dition	Pdh (declared heating cap)	kW	69.9	74.0
	(-7°C)				
	B Condi-	COPd (declared COP)		3.8	3.9
	tion (2°C)	Pdh (declared heating cap)	kW	42.5	45.1
	C Condi-	COPd (declared COP)		6.6	6.8
	tion (7°C)	Pdh (declared heating cap)	kW	27.4	29.0
	D Con-	COPd (declared COP)			9.0
	dition	Pdh (declared heating cap)	kW		14.2
	(12°C)				
Space heating	A Con-	COPd (declared COP)			2.6
(Average climate)	dition	Pdh (declared heating cap)	kW	69.9	74.0
ecommended	(-7°C)				
combination 2	B Condi-	COPd (declared COP)		3.8	3.9
	tion (2°C)	Pdh (declared heating cap)	kW	42.6	45.1
	C Condi-	COPd (declared COP)		6.7	6.8
	tion (7°C)	Pdh (declared heating cap)	kW	27.4	29.0
	D Con-	COPd (declared COP)			9.1
	dition	Pdh (declared heating cap)	kW		14.4
	(12°C)				
		COPd (declared COP)		2.2	2.1
		Pdh (declared heating cap)	kW	79.0	83.7
		Tbiv (bivalent temperature)	°C		-10
	TOL	COPd (declared COP)		2.2	2.1
		Pdh (declared heating cap)	kW	79.0	83.7
Space heating	TOL	Tol (temperature operating	°C		-10
(Average climate)	IUL	limit)			
recommended					
combination 2					
Space heating	A Con-	COPd (declared COP)		2.6	2.5
(Average climate)	dition	Pdh (declared heating cap)	kW	69.9	74.0
recommended	(-7°C)	Full (declared heating cap)	KVV	09.9	74.0
combination 3	B Condi-	COPd (declared COP)		3.7	3.8
combination 5		Pdh (declared heating cap)	kW	42.5	45.1
		COPd (declared COP)	KVV	6.4	6.5
		Pdh (declared heating cap)	L/A/		
			kW	27.3	29.0
	D Con-	COPd (declared COP)	114		8.7
	dition	Pdh (declared heating cap)	kW		13.7
	(12°C)	COD 1 (1 - 1 1 - COD)		22	24
	i Bivalent	COPd (declared COP)	1.14	2.2	2.1
		Pdh (declared heating cap)	kW	79.0	83.7
		Tbiv (bivalent temperature)	°C		-10
	TOL	COPd (declared COP)		2.2	2.1
		Pdh (declared heating cap)	kW	79.0	83.7
		Tol (temperature operating	°C		-10
		limit)			
Capacity range			HP	52	54
PED	Category				egory II
Maximum number		able indoor units			4 (3)
ndoor index	Min.			650.0	675.0
connection	Max.			1,690.0	1,755.0
Heat exchanger	Indoor sic				Air
	Outdoor s	side			Air
	Air flow	Cooling Rated	m³/h	45,720	45,180
	rate	Heating Rated	m³/h	45,720	45,180
Sound power level	Cooling	Nom.	dBA	89.3 (4)	88.6 (4)
	Heating	Prated,h	dBA	90.5 (4)	90.1 (4)
Sound pressure	Cooling	Nom.	dBA	67.1 (5)	66.8 (5)
e					
evel					
level Refrigerant	Type			R	-410A
level Refrigerant	Type GWP				-410A 087.5

Technical spe	cificatio	ns Syste	em		RXYQ52U5	RXYQ54U5
Piping connection	s Liquid	Туре			Braze co	nnection
		OD		mm	19	9.1
	Gas	Туре			Braze co	nnection
		OD		mm	41	1.3
	Total	System	Actual	m	1,00	0 (6)
	piping length					
Indication if the he	eater is equi	pped with	a suppleme	ntary heater	n	10
Supplementary heater	Back-up capacity	Heating	elbu	kW	0	.0
Power consump-	Crank-	Cooling	РСК	kW	0.0	000
tion in other than	case	Heating	PCK	kW	0.255	0.267
active mode	heater mode					
	Off mode	Cooling	POFF	kW	0.225	0.226
		Heating	POFF	kW	0.255	0.267
	Standby	Cooling	PSB	kW	0.225	0.226
	mode	Heating	PSB	kW	0.255	0.267
	Thermo-	Cooling	PTO	kW	0.0	029
	stat-off mode	Heating	PTO	kW	0.2	294
Cooling	Cdc (Degr	adation co	ooling)		0.	25
Heating	Cdh (Deg	radation h	eating)		0.	25

Electrical sp	ecificatio	ons System		RXYQ22U5	RXYQ24U5	RXYQ26U5	RXYQ28U5	RXYQ30U5		
Power supply	Name			Y1						
	Phase			3N~						
	Frequenc	cy	Hz			50				
	Voltage		V			380-415				
Power supply int	ake				Both	n indoor and outdoor	r unit			
Voltage range	Min.		%			-10				
	Max.		%			10				
Current	Nominal	Cooling	А	22.9 (7)	25.2 (7)	28.1 (7)	30.7 (7)	33.5 (7)		
	running current									
	(RLA)									
Current - 50Hz	Nominal	Combina- Cooling				-				
	running	tion A								
	current	Combina- Cooling				-				
	(RLA)	tion B								
		current (MSC) - remark				See note 8				
	Zmax	List				No requirements				
	Minimum	n Ssc value	kVa	11,573 (9)	11,597 (9)	12,831 (9)	13,585 (9)	14,843 (9)		
		n circuit amps (MCA)	A	46.0	0 (10)	51.0 (10)	55.0 (10)	59.0 (10)		
	Maximur	n fuse amps (MFA)	A		63	(11)		80 (11)		
Power Perfor-	Power	Combina- 35°C ISO - Ful	lload			-				
mance	factor	tion B 46°C ISO - Ful	ll load			-				
Wiring connec-	For	Quantity		5G						
tions - 50Hz	power									
	supply									
	For	Quantity		2						
	connec-	Remark				F1,F2				
	tion with									
	indoor									

Electrical sp	ecifications System		RXYQ32U5	RXYQ34U5	RXYQ36U5	RXYQ38U5	RXYQ40U5		
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				
Current	Nominal Cooling	А	36.0 (7)	38.8 (7)	44.9 (7)	44.3 (7)	43.7 (7)		
	running								
	current								
	(RLA)								



Specifications Specifications 2

2 - 1

Electrical sp	ecificatio	ns Syst	tem		RXYQ32U5	RXYQ34U5	RXYQ36U5	RXYQ38U5	RXYQ40U5
Current - 50Hz		Combin- tion A	a- Cooling				-	·	
	current (RLA)	Combin- tion B	a- Cooling				-		
	Starting c	urrent (M	1SC) - remark				See note 8		
	Zmax	List					No requirements		
	Minimum	Ssc value	e	kVa	15,094 (9)	16,352 (9)	17,359 (9)	19,397 (9)	20,378 (9)
	Minimum	circuit ar	mps (MCA)	А	62.0 (10)	66.0 (10)	70.0 (10)	76.0 (10)	81.0 (10)
	Maximum	n fuse am	ps (MFA)	Α		80 (11)		100	(11)
Power Perfor-	Power	Combin	a- 35°C ISO - Fu	ll load			-		
mance	factor	tion B	46°C ISO - Fu	ll load			-		
Wiring connec- tions - 50Hz	For power supply	Quantity	у				5G		
	For	Quantity	У				2		
	connec- tion with indoor	Remark					F1,F2		

Electrical sp	ecificatio	ns System		RXYQ42U5	RXYQ44U5	RXYQ46U5	RXYQ48U5	RXYQ50U5		
Power supply	Name					Y1				
,	Phase			3N~						
	Frequenc	:y	Hz			50				
	Voltage		V			380-415				
Power supply inta	ake				Both	indoor and outdoor	r unit			
Voltage range	Min.		%			-10				
	Max.		%							
Current	Nominal running current (RLA)	Cooling	A	46.2 (7)	48.7 (7)	51.4 (7)	54.0 (7)	56.8 (7)		
Current - 50Hz	Nominal running current	Combina- Cooling tion A Combina- Cooling				-				
	(RLA)	tion B								
	Starting o	current (MSC) - remark		See note 8						
	Zmax	List		No requirements						
	Minimum	n Ssc value	kVa	20,629 (9)	21,132 (9)	21,887 (9)	22,641 (9)	23,899 (9)		
	Minimum	n circuit amps (MCA)	А	84.0 (10)	86.0 (10)	89.0 (10)	93.0 (10)	97.0 (10)		
	Maximun	n fuse amps (MFA)	А	100 (11) 125 (11)						
Power Perfor-	Power	Combina- 35°C ISO - Fu	Ill load			-				
mance	factor	tion B 46°C ISO - Fu	ull load			-				
Wiring connec-	For	Quantity				5G				
tions - 50Hz	power supply									
	For	Quantity				2				
	connec- tion with indoor	Remark			F1,F2					

Electrical sp	ecifications System		RXYQ52U5	RXYQ54U5			
Power supply	Name		Y1 3N~				
	Phase						
	Frequency	Hz	50				
	Voltage	V	380-415				
Power supply int	ake		Both indoor and ou	utdoor unit			
Voltage range	Min.	%	-10				
	Max.	%	10				
Current	Nominal Cooling running current (RLA)	A	59.6 (7)	62.4 (7)			
Current - 50Hz	Nominal Combina- Cooling running tion A		-				
	current Combina- Cooling (RLA) tion B		-				
	Starting current (MSC) - remar	(See note 8				
	Zmax List		No requirements				
	Minimum Ssc value	kVa	25,157 (9)	26,415 (9)			
	Minimum circuit amps (MCA)	A	101.0 (10)	105.0 (10)			
	Maximum fuse amps (MFA)	A	125 (11)				
Power Perfor-	Power Combina- 35°C ISO -	Full load	-				
mance	factor tion B 46°C ISO	Full load	-				

Electrical spe	cification	s System	RXYQ52U5	RXYQ54U5	
Wiring connec- tions - 50Hz	For (power supply	Quantity	50	G	2
	For 0	Quantity	2	2	
	connec- tion with indoor	Remark	F1,	F2	

Options 3

3 - 1 Options

RXYQ-U5
RYYQ-U5
RYMQ-U5

			RXYQ8U5	RXYQ10-12U5	RXYQ14-18U5	RXYQ20U5	RYYQ22~54U5			
No	ltem									
١.	Refnet header				KHRQ22M29	H				
				KHRQ22M64H						
			KHRQ22M75H							
П.	Refnet joint		KHRQ22M20T							
					KHRQ22M291					
					KHRQ22M64					
						KHI	RQ22M75T			
III.	Outdoor multi-connection kit	See note ·2·.					BHFQ22P1007			
IV.	Outdoor multi-connection kit	See note ·2·.					BHFQ22P1517			
No	Item		8HP 10HP	12HP	14HP 16HP	18HP 20HP				
1a	Cool/heat selector (switch)	See note ·3·.		KRC	19-26A					
1b	Cool/heat selector (PCB)			BRI	P2A81					
1c	Cool/heat selector (fixing box)		KJB111A							
2	VRV configurator		EKPCCAB*							
3	Heater tape kit PCB		EKBP	EKBPH012T7A EKBPH020T7A						
4	Demand PCB	See		DTA104A61/62*						
5	Demand PCB mounting plate	See note ·4·.			KKSB2	6B1*				

- Notes 1 All options are kits 2 Only for multi units
 - 3 To mount option ·1a·, option ·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

RXYTQ8-16U5YF RYMQ8-20U5

Unit combination restrictions: VRV4 outdoor units (all models) + 15-class indoor units Units in scope: FXZQ15A and FXAQ15A.

- 1. 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 \leq 115% \rightarrow CR1 of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be \leq 40%.
 - $115\% < CR \le 120\% \rightarrow CR1$ of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be $\le 25\%$.
 - 120% < CR ≤ 125% → CR1 of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be ≤ 10%.
 - 125% < CR \leq 130% \rightarrow FXZQ15A and FXAQ15A cannot be used

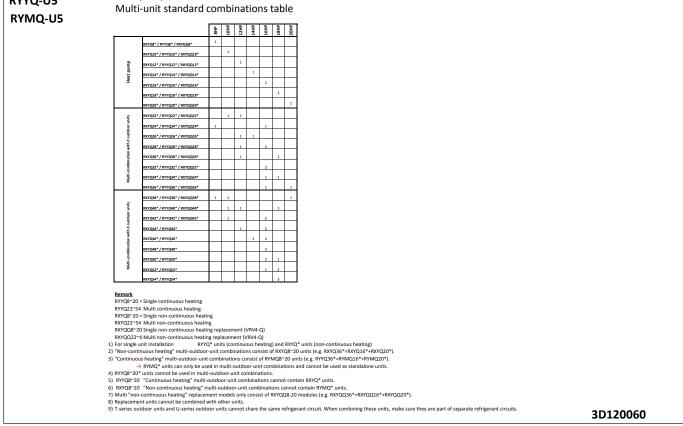
VRV4

Heat pump

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

RXYQ-U5 RYYQ-U5





RXYQ-U5

Combination table 4

Combination Table 4 - 1

VRV4

4

RYYQ-U5 Heat pump

Indoor unit combination restrictions

	Indoor unit combination patte	rn VRV* DX indoor u	unit RA DX indoor unit	Hydrobox unit	(3) Air handling unit (AHU)
	VRV* DX indoor unit	0	0	0	0
	RA DX indoor unit	0	0	X	х
	Hydrobox unit Air handling unit	(3) O	x x	0, X	<u>X</u> O ₂
Not 2. 0₁ - Only connec → Refe → Conri- Only connec → HXH 3. 0₂ - Combination → X-co → V-co → V-co → Z-coi 4. Combination of → Z-coi 5. The combination (3) The followin → EKE	r unit ining VRV DX indoor units with other types of Example Allowed : (VRV DX indoor unit + Hydrobox un a allowed : (VRV DX indoor unit + (RA DX indo it Hydrobox units to a VRV IV Heat Pump in cc it to the connection ratio restrictions (300795 nection with only Hydrobox units: refer to the it Hydrobox units of the HXY+ series. D* series Hydrobox units are not allowed. In of AHU only + control box EKEQFA (the com- ntrol is possible (up to 3x [EKEXV+EKEQFA* bontrol is possible (EKEQMA* boxes are allowed in of AHU and VRV DX indoor units ntrol is possible (EKEQMA* boxes are allowed in of AHU with Hydrobox units or RA DX indoo ug units are considered AHUs: V + EKEQ(MA/FA) + AHU coil le air curtain	nit) or (VRV DX indoor unit + RA DX indoor un or unit & (Hydrobox unit or AHU))] or (VRV E ambination with a VRV DX indoor unit. 40 & 30117169). • Daikin Altherma solutions. bination with VRV DX indoor units is not allad boxes] can be connected to one outdoor unit toxes] can be connected to one outdoor unit soxes] can be connected to one outdoor unit bindra with VRV DX indoor units KV + EKEQMA boxes] is determined by the co I, but with a limited connection ratio).	nit) or (VRV DX indoor unit + AHU) X indoor unit + (Hydrobox unit & (RA DX inc Variant + (Hydrobox unit & (RA DX inc (RA DX inc) wed; maximum 54HP for 400 + 2x500 class (system)). No Variable Refrigerant Tempera (system)). No Variable Refrigerant Tempera (system)). No Variable Refrigerant Tempera	EKEXV kit) ture control possible. ture control possible. ature control possible.	
Information	Q_MF units re considered to be regular VRV DX indoor ur	hits.			3D07954
XYQ-U5					
YYQ-U5					
YMQ-U5	i				
		VRV4 Heat pump Indoor unit combination re 2/2)	estrictions		
	Combination table	RYYQ*	RYYQ*	RXYQ*	RXYQ*
		Single continuous heating	Multi continuous heating	Single non-continuous heating	Multi non-continuous heating
	VRV* DX indoor unit	0	0	0	0
	RA DX indoor unit	0	x	0	x
	KA DA IIIUOOI UIIIL			0	^

01

0

0

0

0

0

0: Allowed

X: Not allowed

<u>Notes</u>

1. O₁

- Available upon request through the SPN procedure.

(2)

- (2) The following units are considered AHUs:
 → EKEXV + EKEQ(MA/FA) + AHU coil
 → Biddle air curtain

Hydrobox unit Air handling unit (AHU)

- \rightarrow FXMQ_MF units

01

o

4 Combination table

4 - 1 Combination Table

RXYQ-U5 RYYQ-U5

RYMQ-U5 Compatibility list: ·VRV4· heat pump - ·RA DX· indoor unit

	•	
Wall mounted type	Emura	FTXJ20A
		FTXJ25A
		FTXJ35A
		FTXJ42A
		FTXJ50A
	Stylish	FTXA20
		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
		CVXM20A
	Nexura	FVXG25K FVXG35K
		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>



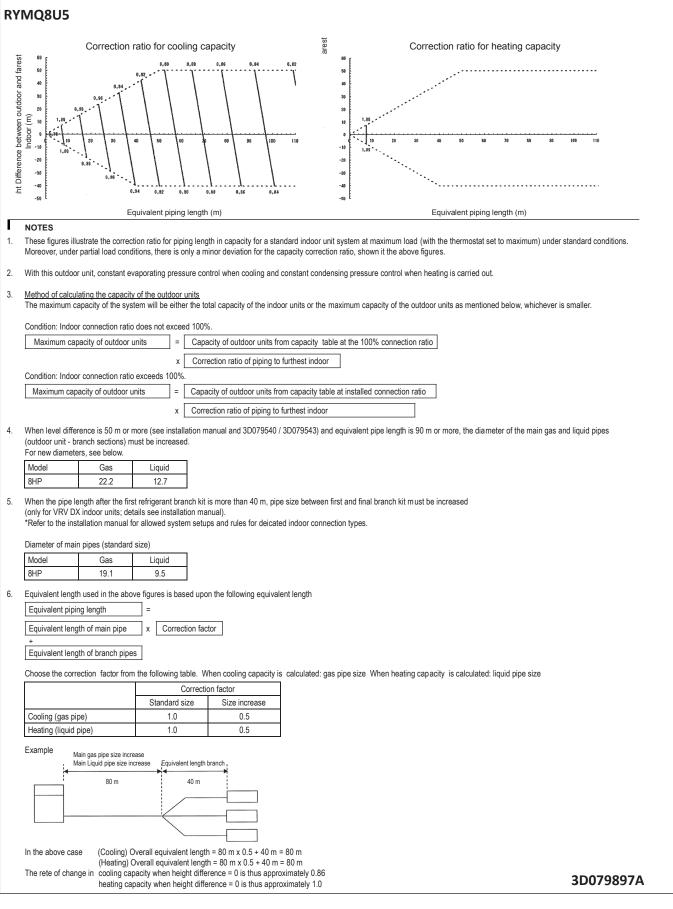
5 - 2 Capacity Correction Factor

RXYQ-U5									
RYYQ-U5 RYMQ-U5	VRV4								
	Heat p	pump							
	Integr	ated he	eating	capaci	ty coe	ficient	t		
		pacity tables do alues that take th							tion. alculated as follows:
	B = C =	 Integrated heat Capacity character Integrated correcter A = B * C Parature of heat exercise 	teristics value ection factor fo		ation (see table)			
		-7/-7,6 or less	-5/-5,6	-3/-3,7	0/-0,7	3/2,2	5/4,1	7/6]
	Integrated cor 8HP	rection factor for 0,95	frost accumul 0,93	ation C 0,88	0,84	0,85	0,90	1,00	-
	10HP	0,95	0,93	0,88	0,84	0,80	0,90	1,00	
	12HP	0,95	0,92	0,87	0,75	0,76	0,85	1,00	
	14HP 16HP	0,95 0,95	0,92	0,86	0,72	0,73	0,84	1,00	4
	18HP	0,95	0,93	0,88	0,84	0,85	0,90	1,00	Defrost operation
	20HP	0,95	0,93	0,88	0,84	0,85	0,90	1,00	E HONDON CONTROL -
	22HP 24HP	0,95 0,95	0,92	0,87	0,77	0,78 0,76	0,86	1,00	
	26HP	0,95	0,92	0,86	0,73	0,74	0,85	1,00	
	28HP	0,95	0,92	0,86	0,73	0,74	0,84	1,00	
	30HP 32HP	0,95	0,93	0,87	0,80	0,81	0,88	1,00	
	32HP 34HP	0,95 0,95	0,92	0,86	0,71	0,72	0,83	1,00	Appendent State St
	36HP	0,95	0,92	0,87	0,78	0,79	0,87	1,00	
	38HP	0,95	0,93	0,88	0,83	0,84	0,89	1,00	· · · · · · · · · · · · · · · · · ·
	40HP 42HP	0,95	0,93	0,87	0,80	0,81 0,74	0,88	1,00	
	44HP	0,95	0,92	0,86	0,73 0,72	0,74	0,84	1,00	•
	46HP	0,95	0,92	0,86	0,72	0,72	0,83	1,00	
	48HP	0,95	0,92	0,86	0,71	0,72	0,83	1,00	
	50HP 52HP	0,95 0,95	0,92	0,87 0,87	0,76 0,80	0,77 0,81	0,86 0,88	1,00 1,00	1 cycle
	54HP	0,95	0,93	0,87	0,80	0.85	0,88	1,00	
	When there is	ws the integrated an accumulation °C DB), relative h	of snow again	st the outdoor	unit heat excha	nger, there will			on in capacity depending on the outdoor
	temperature (inc amount					
	The multi-com	bination data 22	~54HP corresp	onds with the s	tandard multi-c	ombination of	drawing 3D0795	34.	3D079898A



5 - 2 Capacity Correction Factor

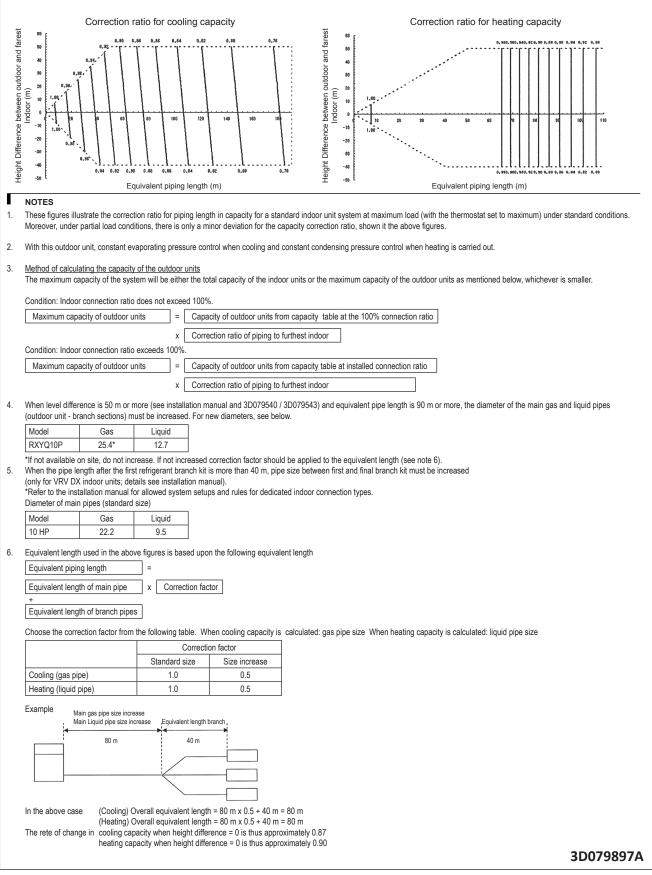
RXYQ8U5



5 - 2 Capacity Correction Factor

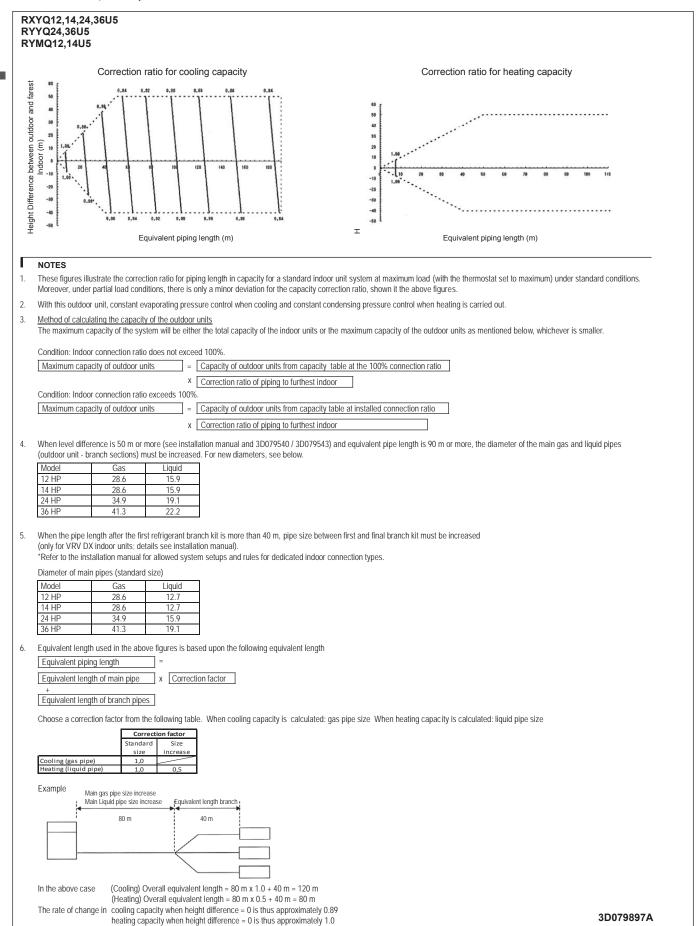
RXYQ10U5

RYMQ10U5

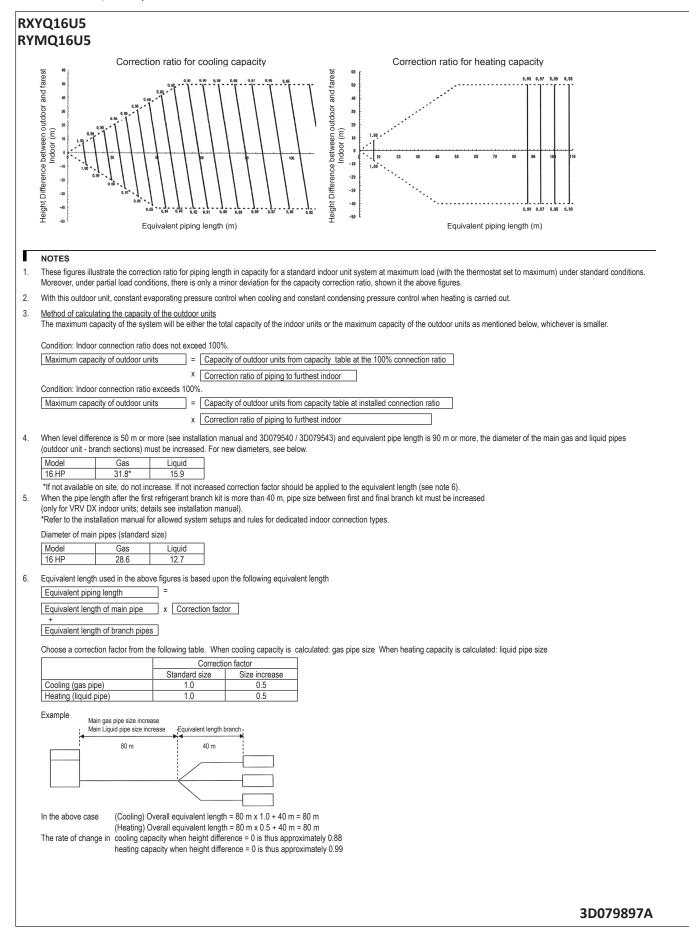




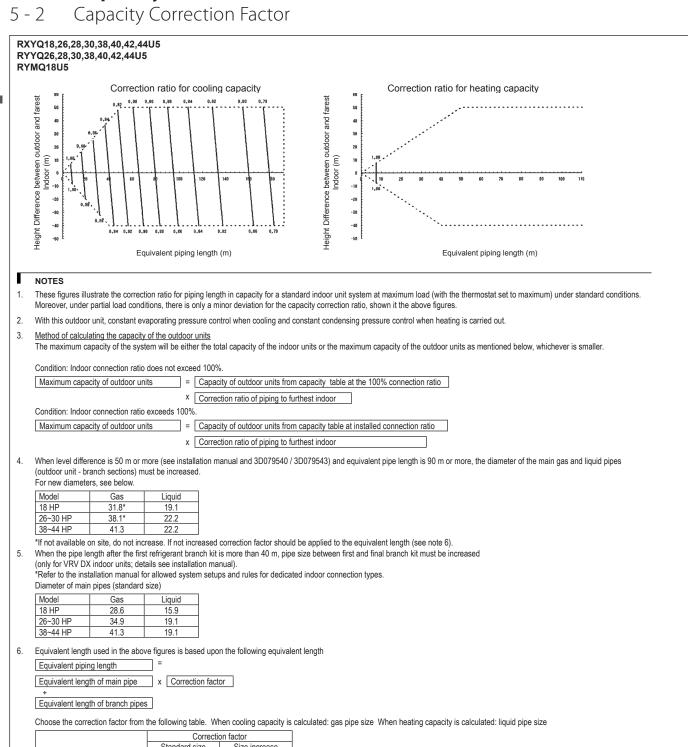
5 - 2 Capacity Correction Factor



5 - 2 Capacity Correction Factor

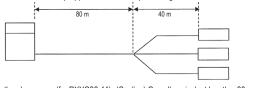






	Correcti	Correction factor				
	Standard size	Size increase				
Cooling (gas pipe)	1.0	0.5				
Heating (liquid pipe)	1.0	0.5				

Example Main das pipe size increase Main Liquid pipe size increase Equivalent length branc

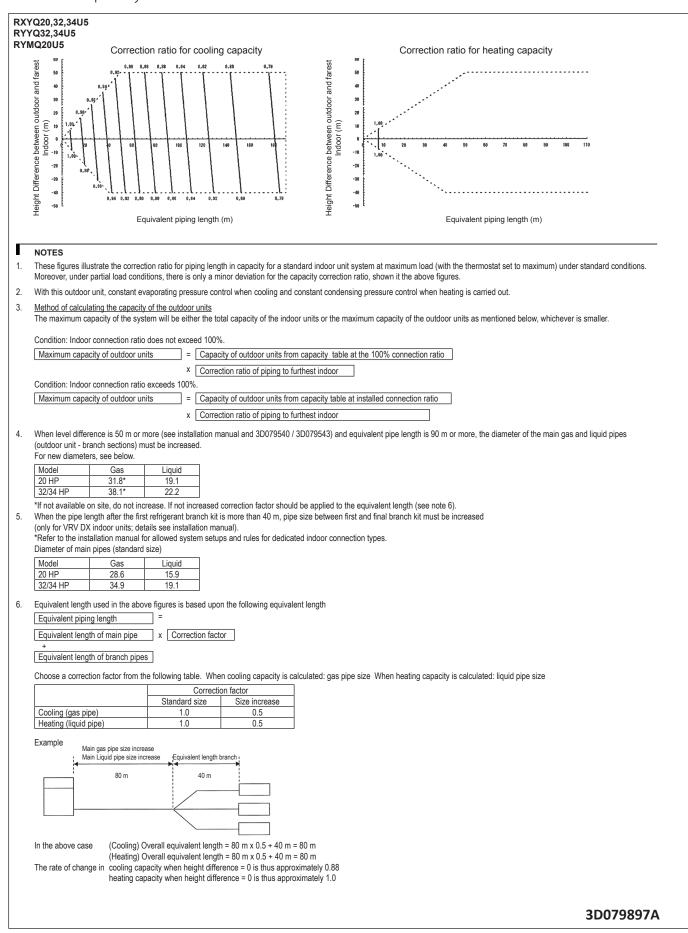


In the above case (for RXYQ38-44) (Cooling) Overall equivalent length = 80 m x 1.0 + 40 m = 120 m (Heating) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m cooling capacity when height difference = 0 is thus approximately 0.83 The rate of change in

heating capacity when height difference = 0 is thus approximately 1.0

3D079897A

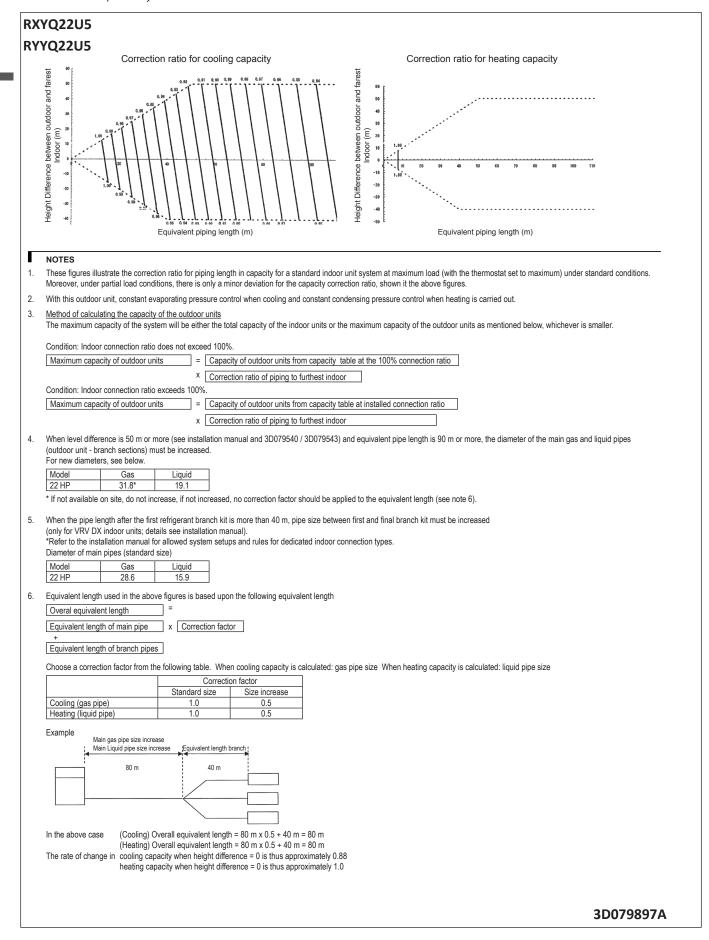
5 - 2 Capacity Correction Factor



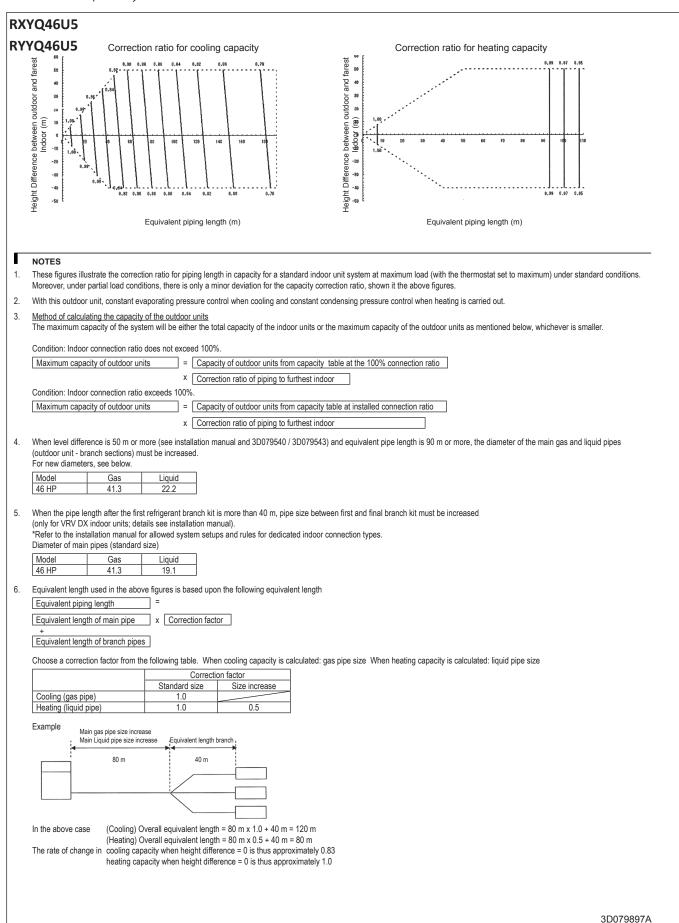
5

5 Capacity tables

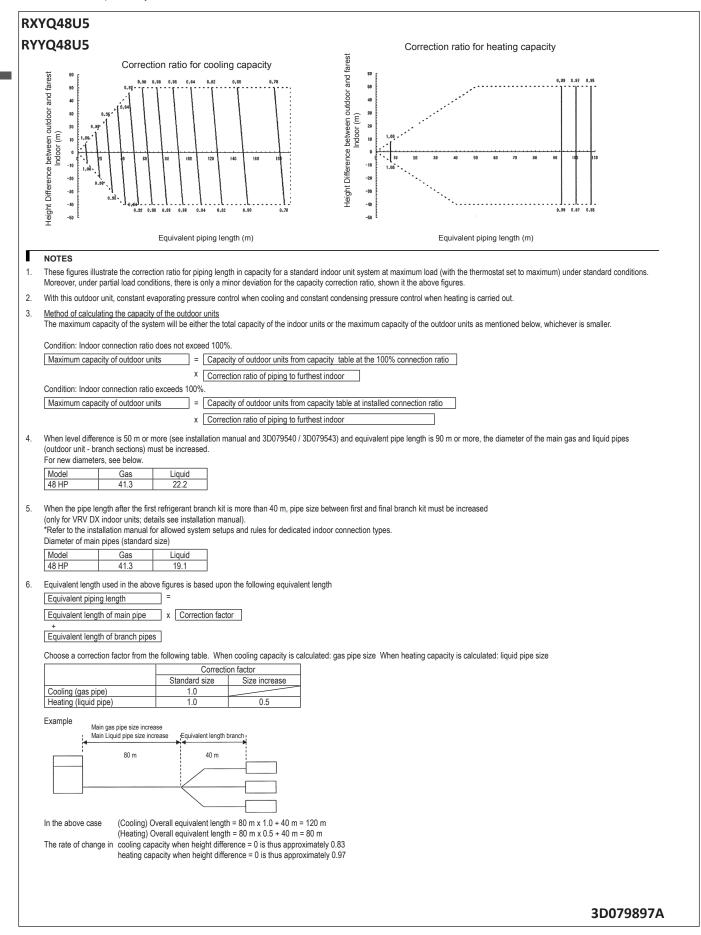
5 - 2 Capacity Correction Factor



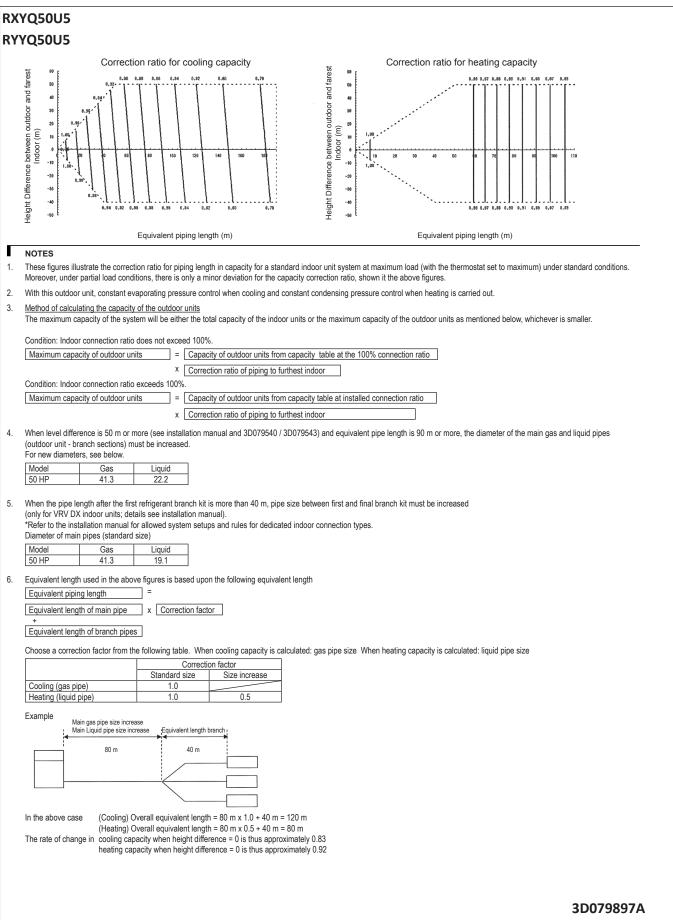
5 - 2 Capacity Correction Factor



5 - 2 Capacity Correction Factor

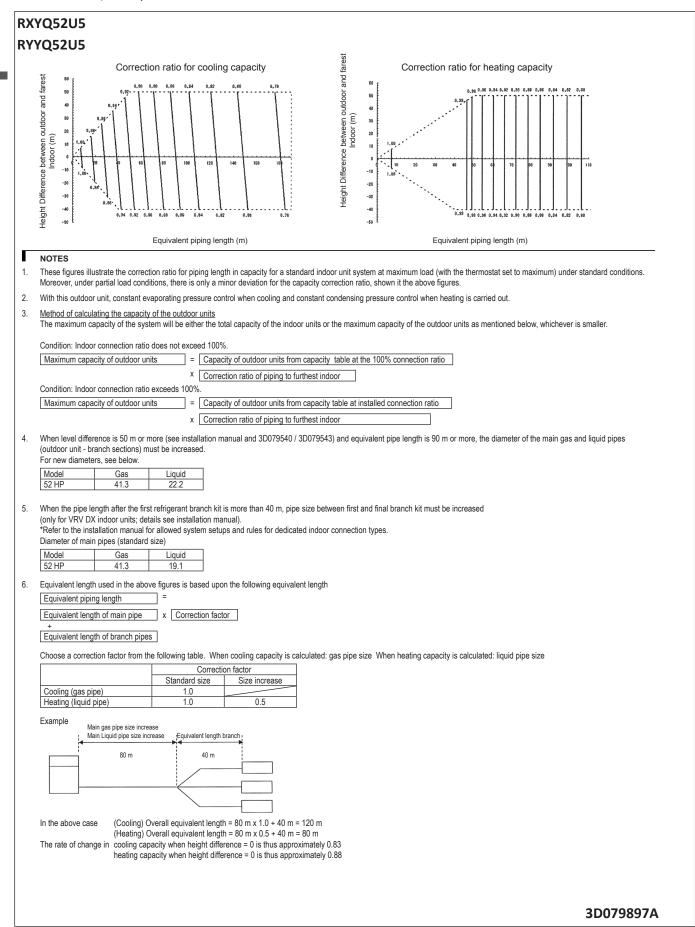


5 - 2 Capacity Correction Factor

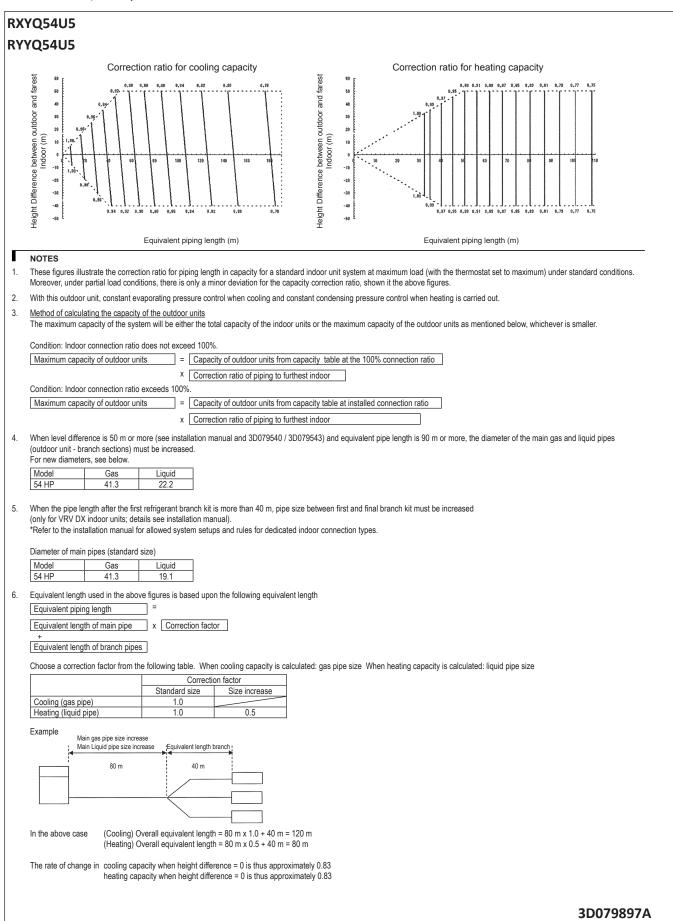




5 - 2 Capacity Correction Factor



5 - 2 Capacity Correction Factor

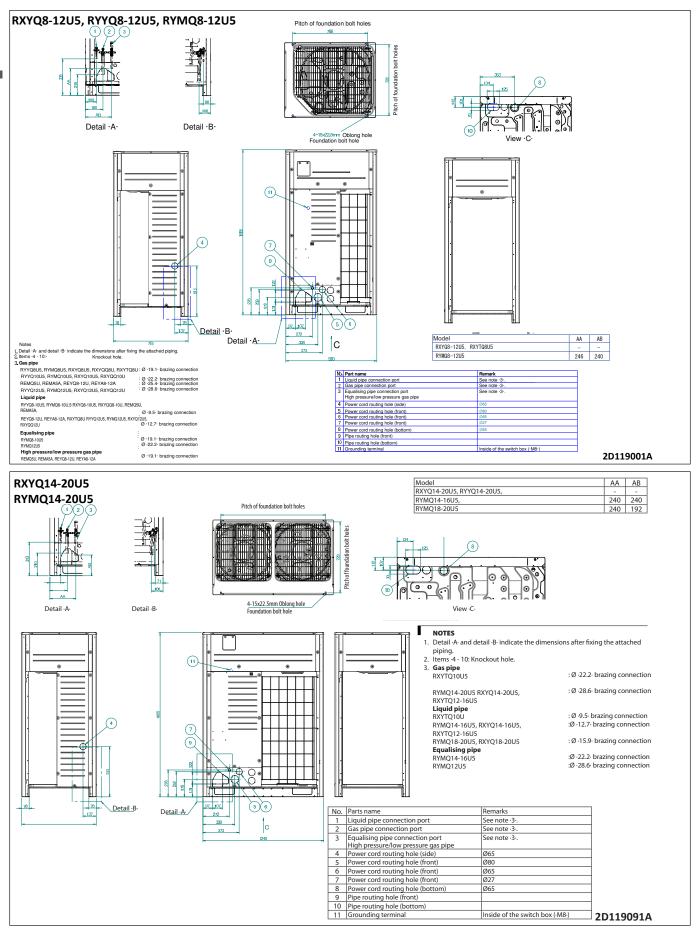




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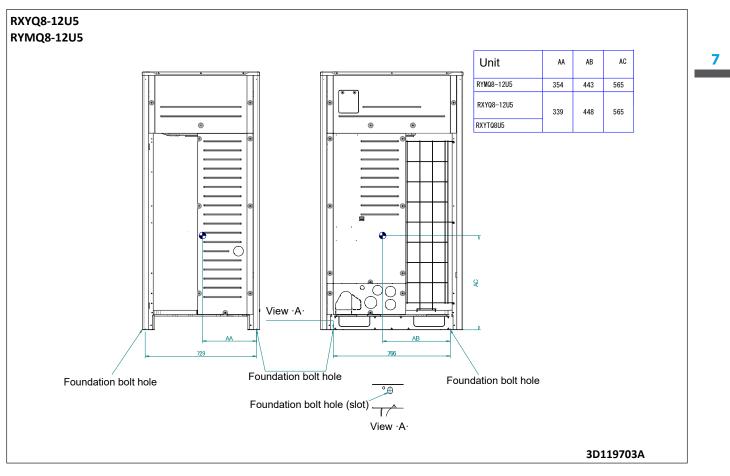
6 Dimensional drawings

6 - 1 Dimensional Drawings



7 Centre of gravity

7 - 1 Centre of Gravity



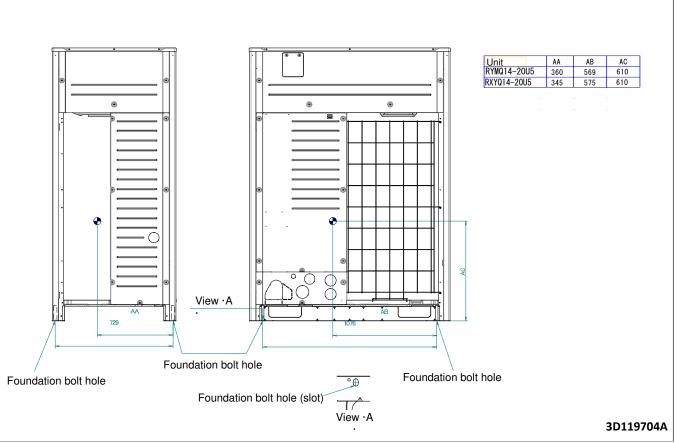
7 Centre of gravity

7 - 1 Centre of Gravity



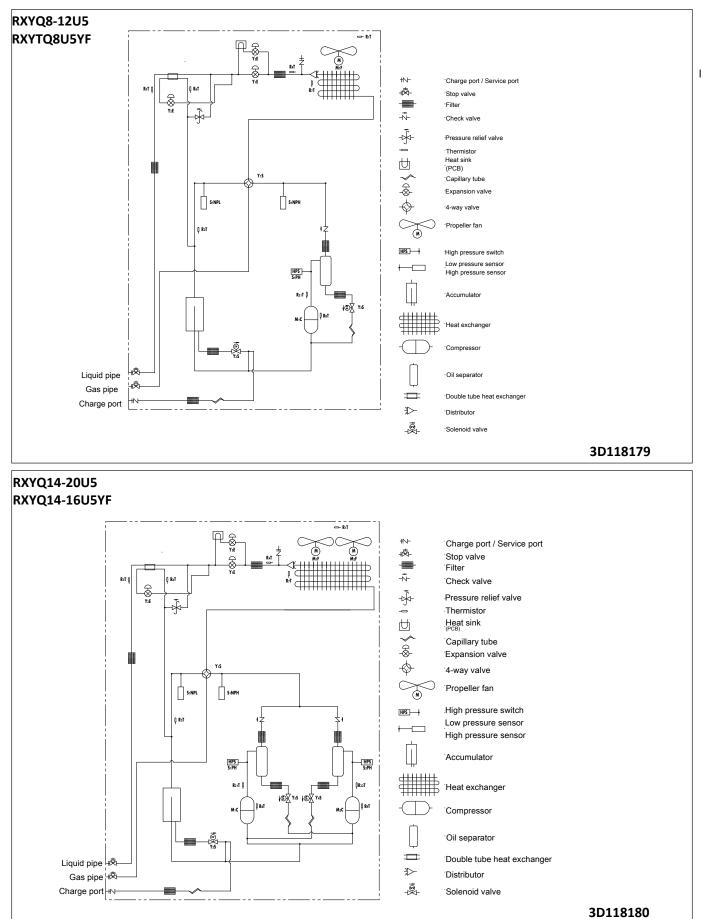


7



8 Piping diagrams

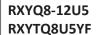
8 - 1 Piping Diagrams



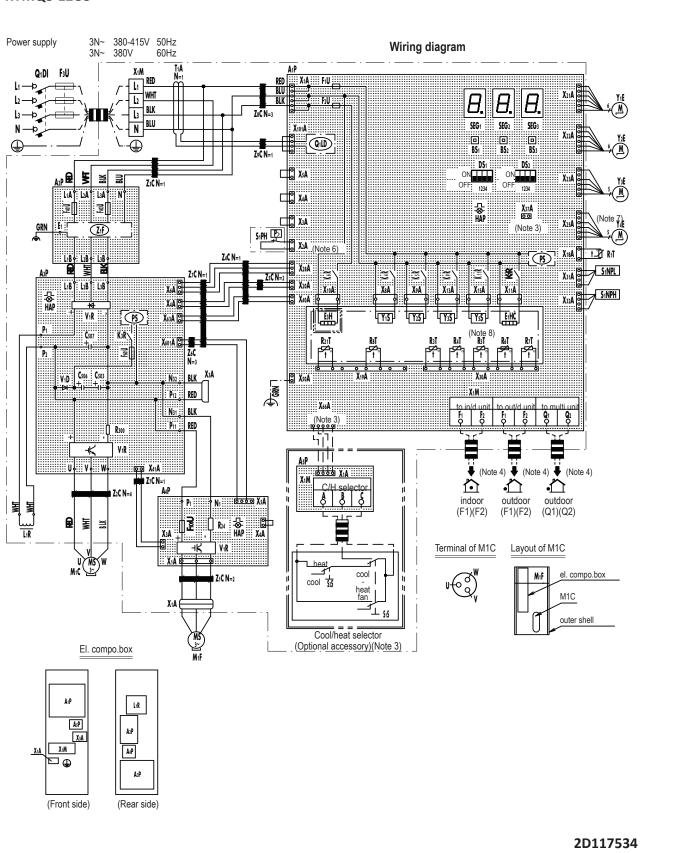


9 Wiring diagrams

9 - 1 Wiring Diagrams - Three Phase



RYMQ8-12U5



9 Wiring diagrams

9 - 1 Wiring Diagrams - Three Phase

RXYQ8-12U5 RXYTQ8U5YF RYMQ8-12U5

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)		Cool/Heat Selector)

NOTES

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

2. := Interminal block, ⊡: connector, -_-: terminal, ⊕: protective earth (screw), ♠: functional earth, ___: earth wiring, ___: field supply, ___: PCB, __: switch box, I = : option

- 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.

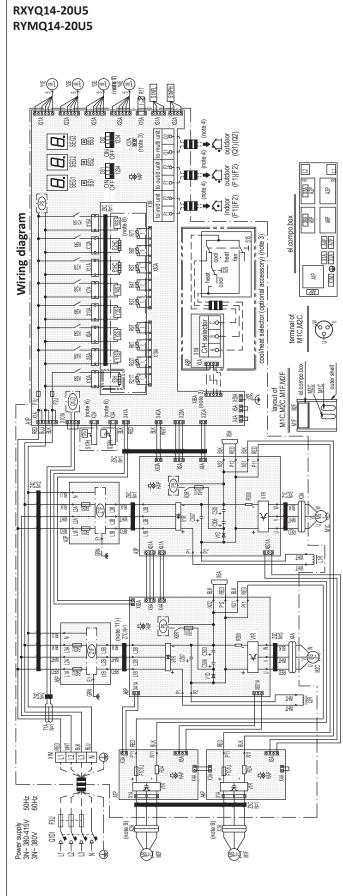
2D117534

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Wiring diagrams 9

9 - 1 Wiring Diagrams - Three Phase





	Printed circuit board (main)
A2P, A5P	Printed circuit board (noise filter)
A3P, A6P A4P, A7P	Printed circuit board (inv)
A4P, A7P A8P	Printed circuit board (fan) 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) K11R (A1P)	Magnetic relay (Y3S) Magnetic relay (Y5S)
L1R, L2R	Reactor
M1C, M2C	Motor (compressor)
M1F, M2F	Motor (fan)
PS (A1P, A3P, A6P)	Switching power supply
Q1DI	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	Thermistor (subcool, liq, pipe)
R6T	Thermistor (heat exc, gas pipe)
R7T	Thermistor (heat exc, deicer)
R8T, R9T	Thermistor (M1C, M2C body)
R21T, R22T	Thermistor (M1C, M2C discharge)
S1NPH	Pressure sensor (high)
S1NPL S1PH, S2PH	Pressure sensor (low)
	Pressure switch (disch) 7-segment display
SEG1~SEG3 (A1P) 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 (power supply)
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)
-	
	nnector for optional accessories
X10A	Connector (drainpan heater)
X37A X66A	Connector (power adapter) Connector (remote switching
	Cool/heat selector)

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

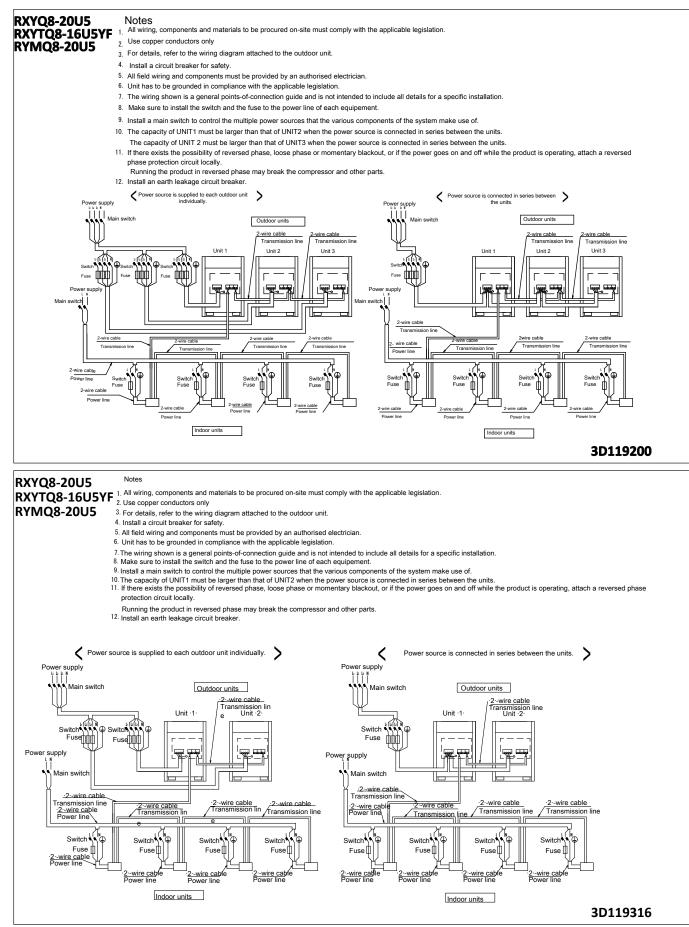
- 2. :: Field wiring, : terminal block, : connector, -- : terminal,
- 3. 4.
- transmission F1-F2, outdoor-multi transmission Q1-Q2, refer to the installation manual. How to use BS1-3 switch. Refer to "service precaution" label on el. Compo. Box cover. When operating, don't shortcircuit the protection devices (S1PH,S2PH) 5.
- 6.
- 7.
- Only for RYYQ model. Only for RYYQ/RYMQ model. 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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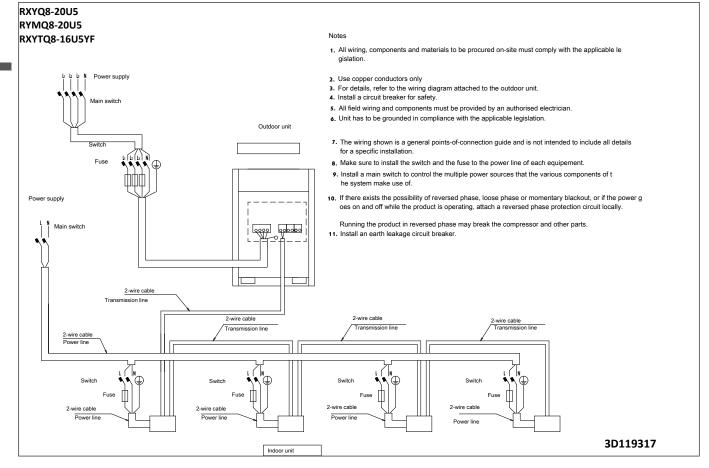
10 External connection diagrams

10 - 1 External Connection Diagrams

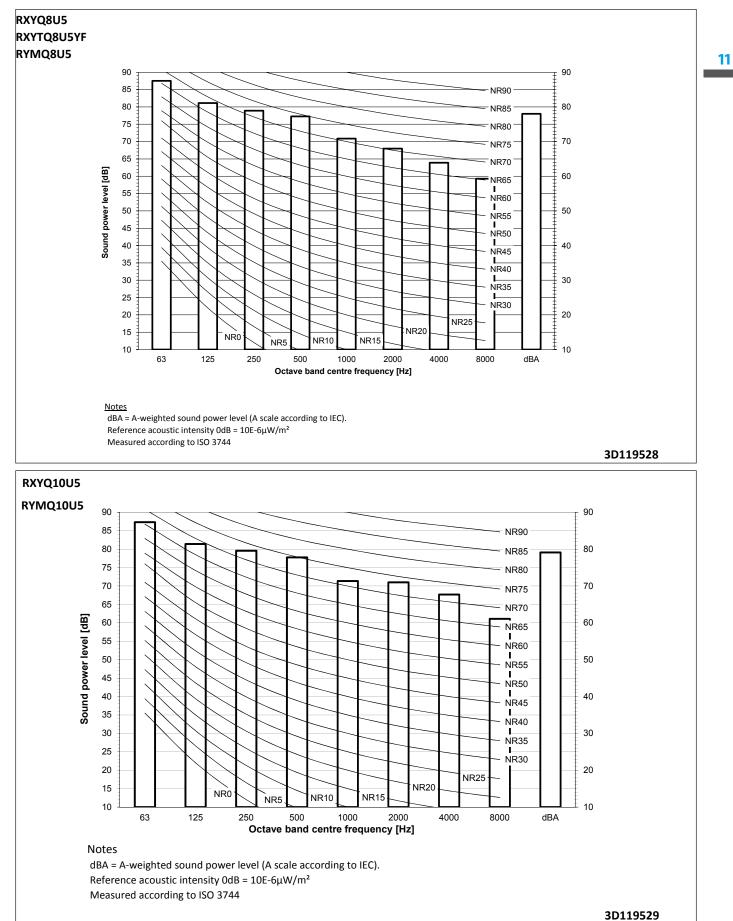


10 External connection diagrams

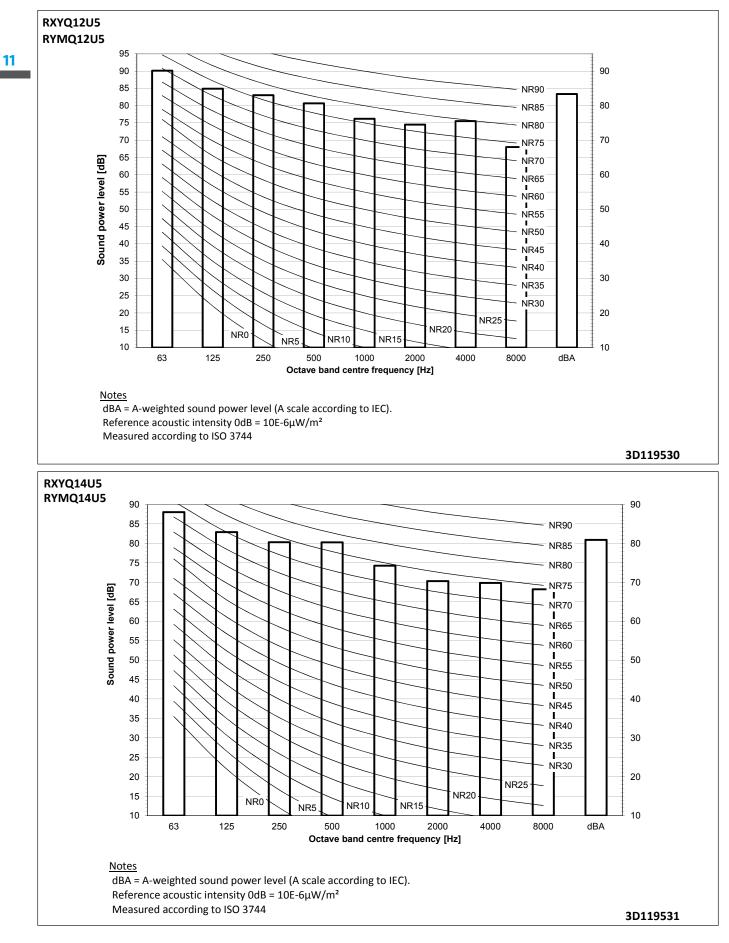
10 - 1 External Connection Diagrams



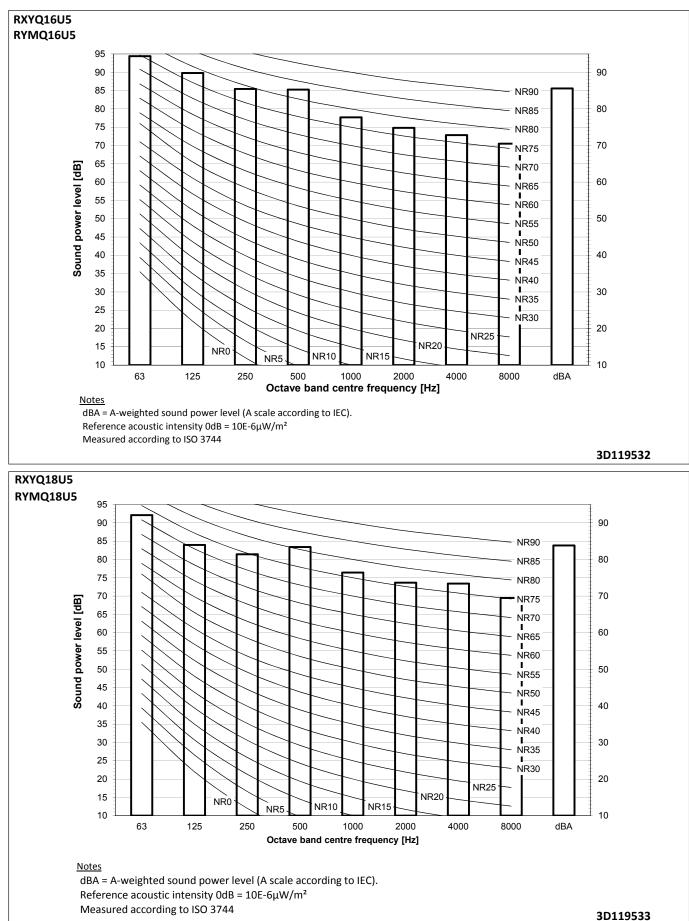
11 - 1 Sound Power Spectrum



11 - 1 Sound Power Spectrum

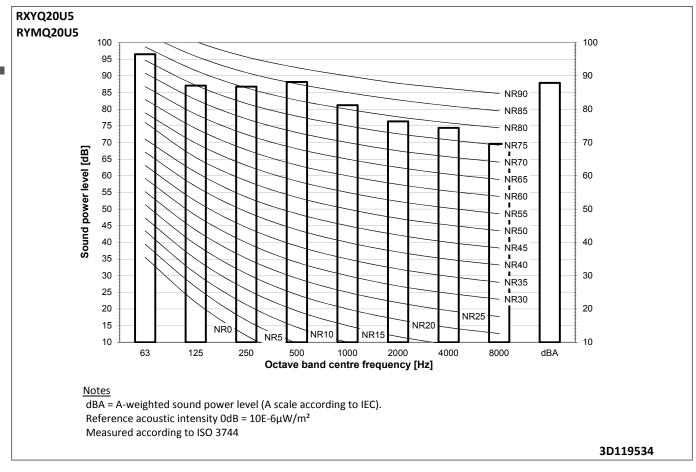


11 - 1 Sound Power Spectrum

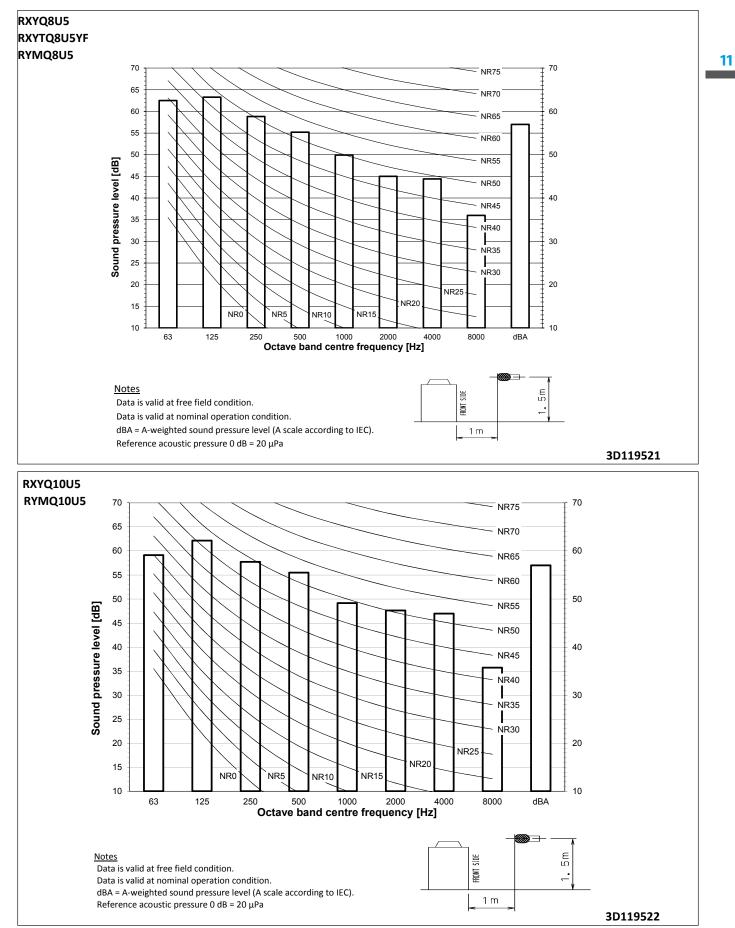




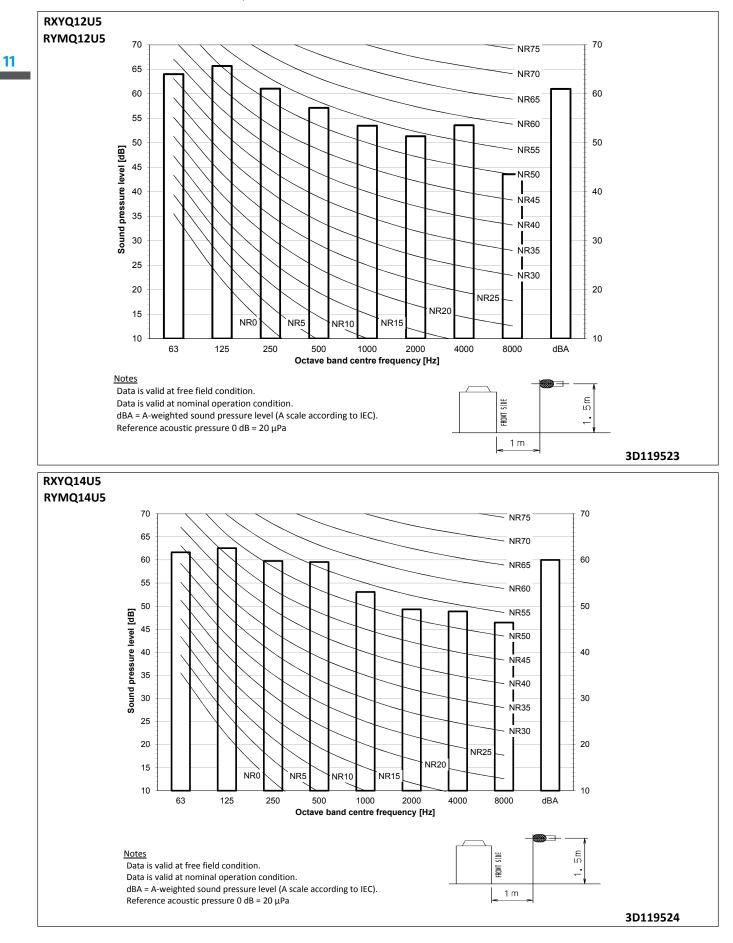
11 - 1 Sound Power Spectrum



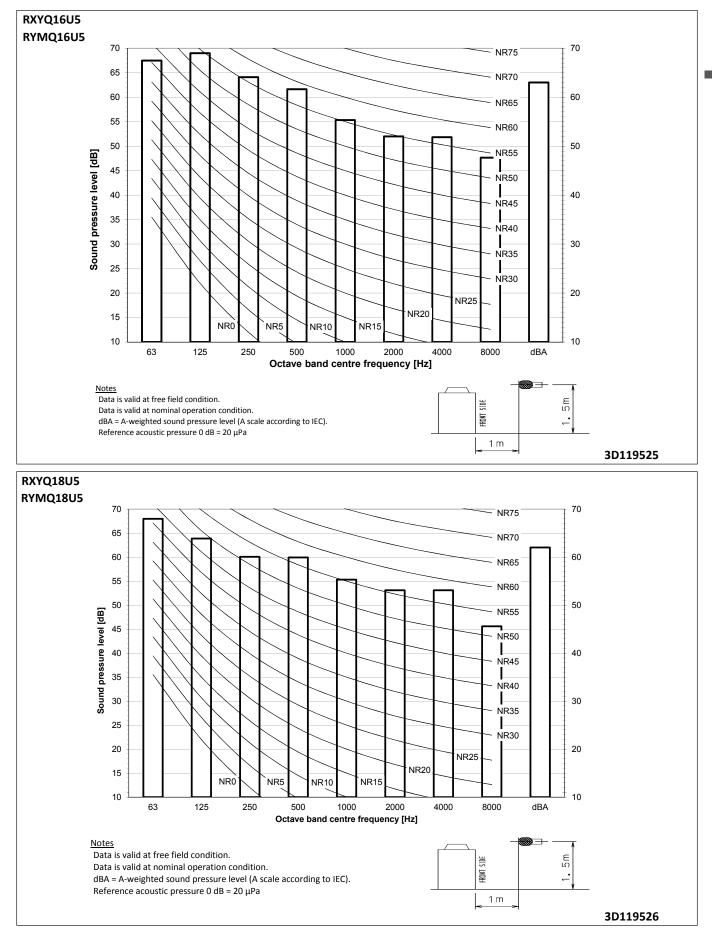
11 - 2 Sound Pressure Spectrum



11 - 2 Sound Pressure Spectrum

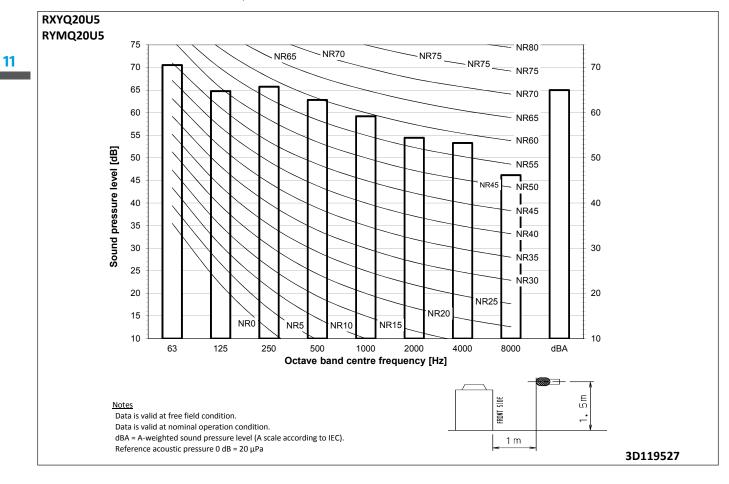


11 - 2 Sound Pressure Spectrum

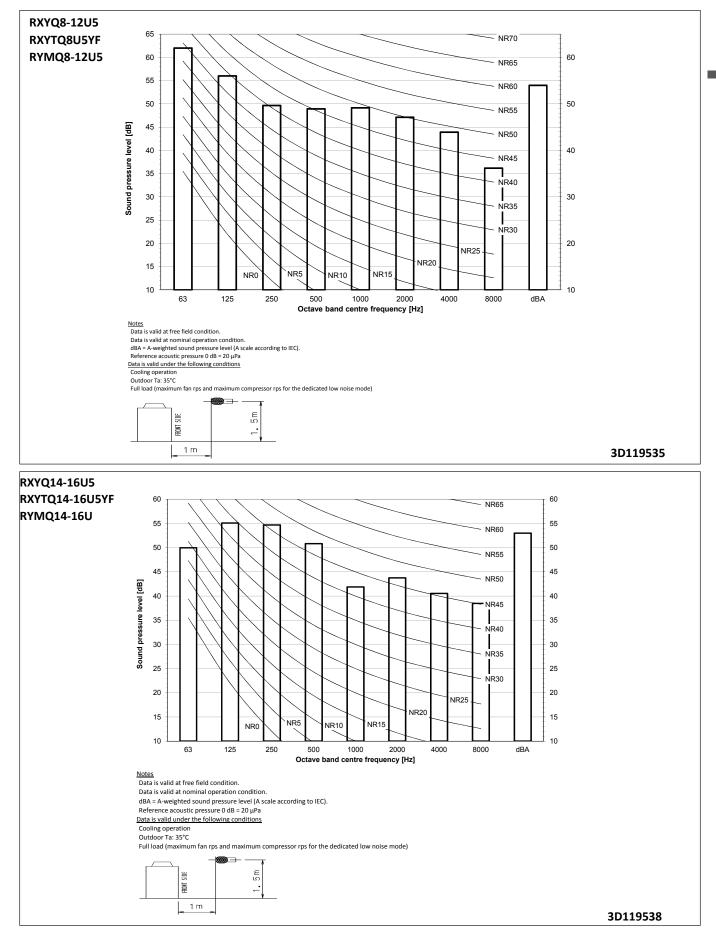




11 - 2 Sound Pressure Spectrum

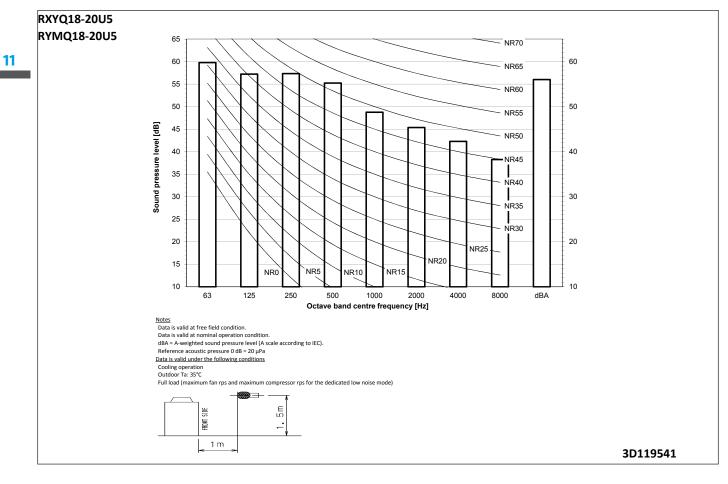


11 - 3 Sound Pressure Spectrum Quiet Mode Level 1





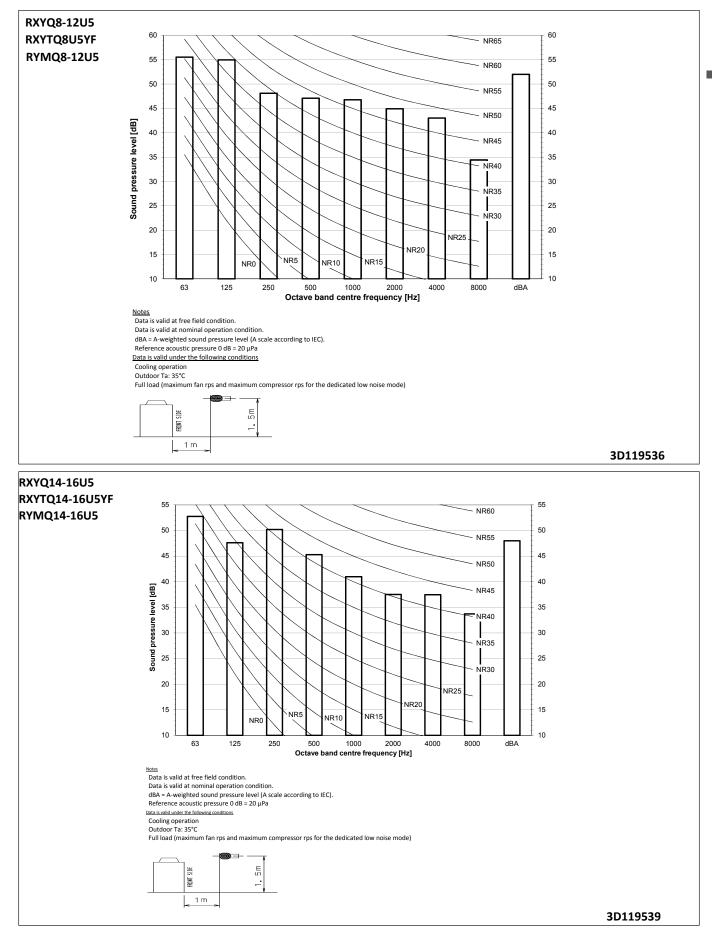
11 - 3 Sound Pressure Spectrum Quiet Mode Level 1



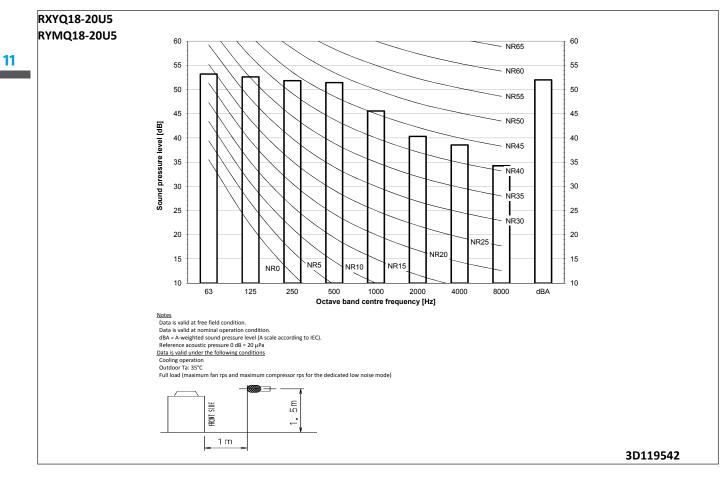
11

11 Sound data

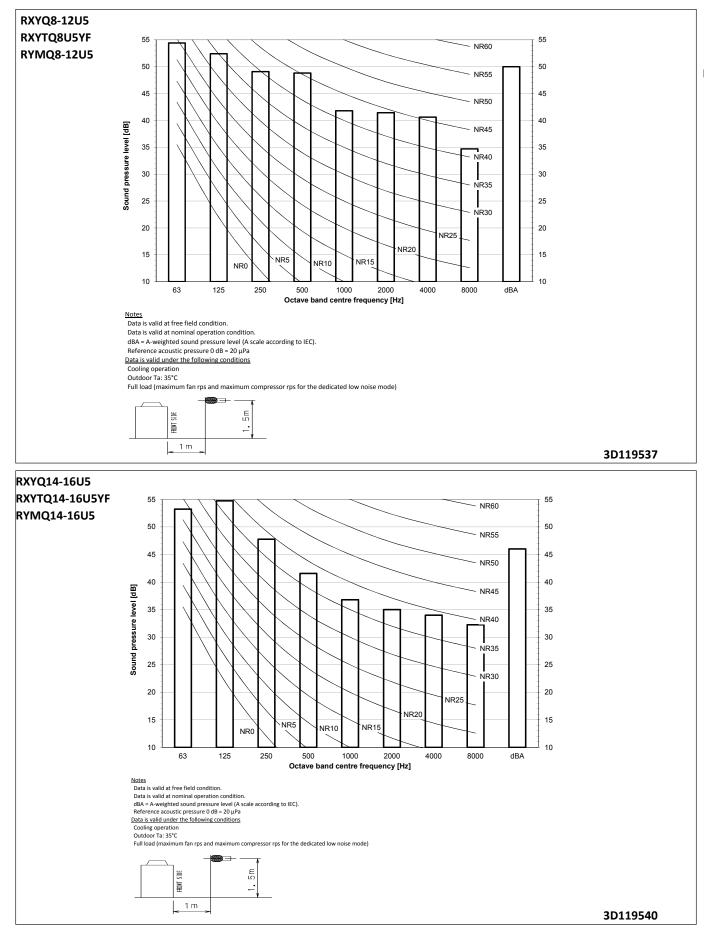
11 - 4 Sound Pressure Spectrum Quiet Mode Level 2



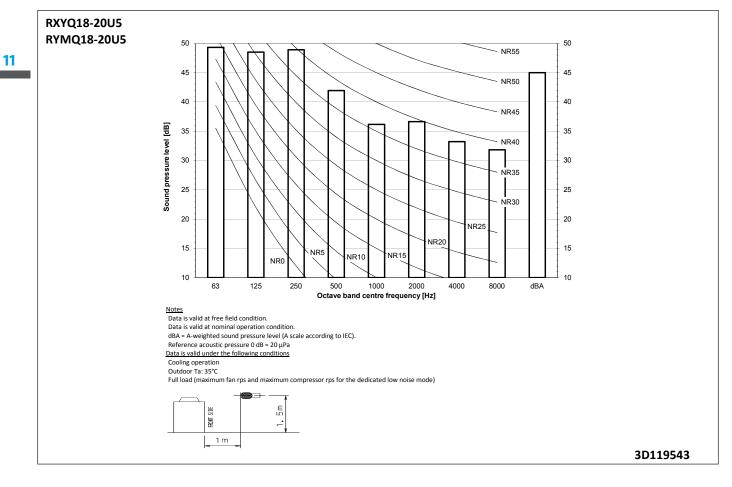
11 - 4 Sound Pressure Spectrum Quiet Mode Level 2



11 - 5 Sound Pressure Spectrum Quiet Mode Level 3



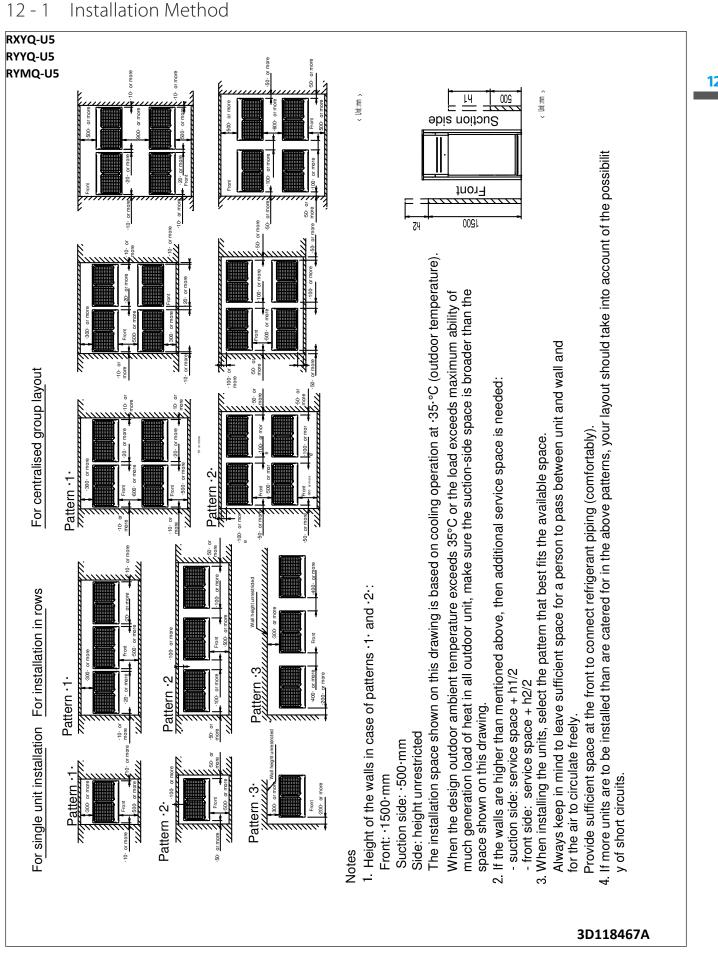




12

Installation

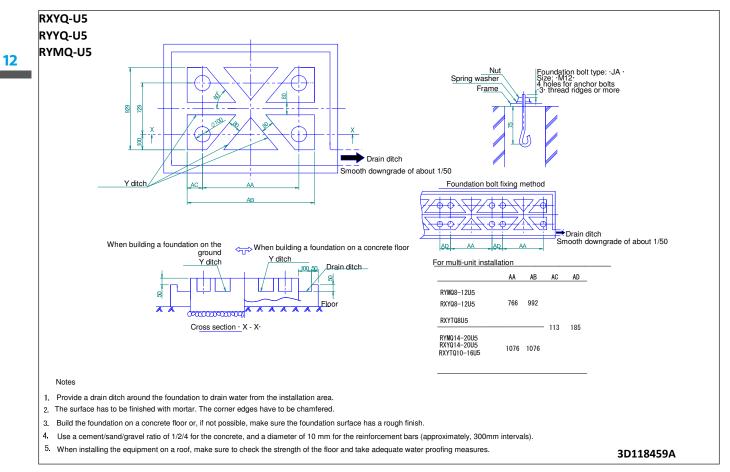
VRV IV+ heat pump, without continuous heating • RXYQ-U5



DAIKIN

12 Installation

12 - 2 Fixation and Foundation of Units



12 Installation

12 - 3 Refrigerant Pipe Selection

RXYQ-U5 RYYQ-U5 RYMQ-U5

VRV4	
Heat pump	
Piping restrictions	1/3

For the reference drawing, see		Maximum piping length			Max	Total piping length		
		Longest pipe	After first branch	After first branch (for multi-outdoor)	Indoor-to-outdoor ⁽³⁾	Indoor-to-indoor	Outdoor-to-outdoor	rota piping icigai
page 2/3.		(A+[B,G,E,J])	(B,G,E,J)	(D)	(H1)	(H2)	(H3)	
		Actual / (Equivalent)	Actual	Actual / (Equivalent)	Outdoor above indoor / (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.

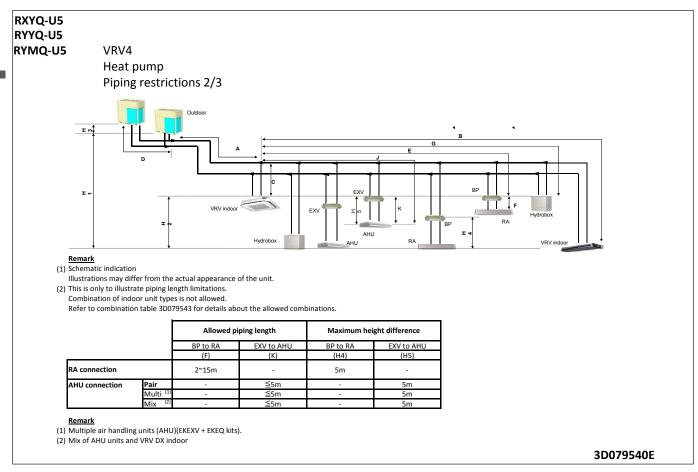
3D079540E



12

12 Installation

12 - 3 Refrigerant Pipe Selection



12 Installation

12 - 3 Refrigerant Pipe Selection

RXYQ-U5 RYYQ-U5 RYMQ-U5

VRV4 Heat pump Piping restrictions 3/3

System pattern Allowed connection ratio (CR)	Τα	otal	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

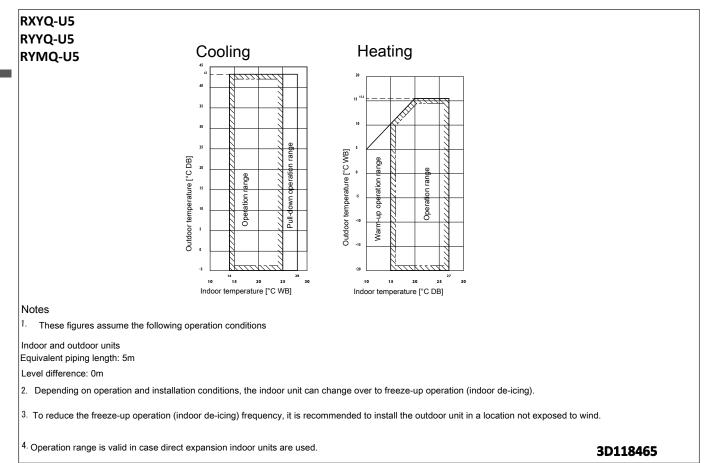
- FXMQ_MF units are considered air handling units, following air handling unit limitations. Maximum connection ratio when combined with VRV DX indoor units: <30%. Maximum connection ratio when only air handling units are connected: <100%. For information on the operation range, refer to the documentation 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.



13

13 Operation range

13 - 1 Operation Range



Appropriate Indoors 14

14 - 1 Appropriate Indoors

RXYQ-U5 RYYQ-U5 RYMQ-U5

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	
			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 FX2Q15-20-25-32-40-50 FXCQ20-25-32-40-50 FXCQ20-25-32-40-50-63-80-125 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.

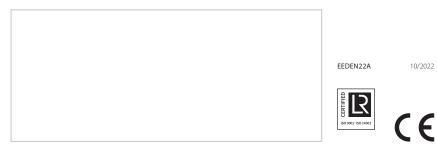
EKEXV50-63-80-100-125-140-200-250-400-500 + EKEQM / EKEQF HXY080-125 VKM50-80-100 CYVS100-150-200-250 CYVM100-150-200-250 CYVL100-150-200-250 EKVDX32-50-80-100 + VAMJ8

3D118461E



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10/2022



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