

Replacement VRV Air Conditioning Technical Data RXYQQ-U

RXYQQ8U7Y1B
RXYQQ10U7Y1B
RXYQQ12U7Y1B
RXYQQ14U7Y1B
RXYQQ16U7Y1B
RXYQQ18U7Y1B
RXYQQ20U7Y1B
RXYQQ22U7Y1B
RXYQQ24U7Y1B
RXYQQ26U7Y1B
RXYQQ28U7Y1B
RXYQQ30U7Y1B
RXYQQ32U7Y1B
RXYQQ34U7Y1B
RXYQQ36U7Y1B
RXYQQ38U7Y1B
RXYQQ40U7Y1B
RXYQQ42U7Y1B



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RXYQQ-U

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1 Features

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- › By choosing this product with LOOP by Daikin you support the reuse of refrigerant
- › Cost effective and fast replacement as only the outdoor and indoor unit needs to be replaced, meaning almost no work has to be carried out inside the building
- › Efficiency gains of more than 70% can be realized, by virtue of technological developments in heat pump technology and the more efficient R-410A refrigerant
- › Less intrusive and time consuming installation compared to installing a new system, as the refrigerant piping can be maintained
- › Unique automatic refrigerant charge eliminates the need to calculate refrigerant volume and allows safe replacement of competitor replacement
- › Automatic cleaning of refrigerant piping ensures a clean piping network, even when a compressor breakdown has occurred
- › Accurate temperature control, fresh air provision, air handling units and Biddle air curtains all integrated in a single system requiring only one single point of contact
- › Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature and full inverter compressors
- › Customize your VRV for best seasonal efficiency & comfort with the weather dependant Variable Refrigerant Temperature function. Increased seasonal efficiency with up to 28%. No more cold draft by supply of high outblow temperatures
- › Possibility to add indoor units and increase capacity without changing the refrigerant piping
- › Possibility to spread the various stages of replacement thanks to the modular design of the VRV system
- › Keep your system in top condition via the Daikin Cloud Service: 24/7 monitoring for maximum efficiency, extended lifetime and immediate service support thanks to failure prediction



Inverter

2 Specifications

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Technical Specifications				RXYQQ8U	RXYQQ10U	RXYQQ12U	RXYQQ14U
Recommended combination				4 x FXFQ50AVEB	4 x FXFQ63AVEB	6 x FXFQ50AVEB	1 x FXFQ50AVEB + 5 x FXFQ63AVEB
Recommended combination 2				4 x FXSQ50A2VEB	4 x FXSQ63A2VEB	6 x FXSQ50A2VEB	1 x FXSQ50A2VEB + 5 x FXSQ63A2VEB
Recommended combination 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)
Heating capacity	Nom.	6°CWB	kW	22.4 (2)	28.0 (2)	33.5 (2)	40.0 (2)
	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 - 50Hz	Heating	Nom.	6°CWB	kW	5.40 (2)	7.58 (2)	9.65 (2)
COP at nom.	6°CWB		kW/kW	4.15 (2)	3.69 (2)	3.47 (2)	3.74 (2)
ESEER - Automatic				7.53	7.20	6.96	6.83
ESEER - Standard				6.37	5.67	5.50	5.31
SCOP				4.3		4.1	4.0
SCOP recommended combination 2				4.2	4.3	4.1	4.0
SCOP recommended combination 3				4.2	4.1		4.0
SEER				7.6	6.8	6.3	
SEER recommended combination 2				6.9	6.8	5.9	6.3
SEER recommended combination 3				7.5	6.8	6.2	
ηs,c			%	302.4	267.6	247.8	250.7
ηs,c recommended combination 2				273.6	270.5	233.5	250.0
ηs,c recommended combination 3				295.2	267.1	246.3	246.7
ηs,h			%	167.9	168.2	161.4	155.4
ηs,h recommended combination 2				165.4	170.6	161.3	157.2
ηs,h recommended combination 3				165.6	162.0	160.6	155.7
Space cooling	A Condi- tion (35°C - 27/19)	EERd Pdc	kW	3.0	2.3	2.4	2.6
	B Condi- tion (30°C - 27/19)	EERd Pdc	kW	22.4	28.0	33.5	40.0
	C Condi- tion (25°C - 27/19)	EERd Pdc	kW	5.2	4.7	4.3	4.1
	D Condi- tion (20°C - 27/19)	EERd Pdc	kW	16.5	20.6	24.7	29.5
	E Condi- tion (15°C - 27/19)	EERd Pdc	kW	9.5	8.3	7.7	7.8
Space cooling recommended combination 2	A Condi- tion (35°C - 27/19)	EERd Pdc	kW	10.6	13.3	15.9	18.9
	B Condi- tion (30°C - 27/19)	EERd Pdc	kW	18.8	17.0	13.9	14.3
	C Condi- tion (25°C - 27/19)	EERd Pdc	kW	8.0	9.3	9.4	8.4
	D Condi- tion (20°C - 27/19)	EERd Pdc	kW	2.6	2.4		2.6
	E Condi- tion (15°C - 27/19)	EERd Pdc	kW	22.4	28.0	33.5	40.0
Space cooling recommended combination 3	A Condi- tion (35°C - 27/19)	EERd Pdc	kW	4.9	4.7	4.0	4.1
	B Condi- tion (30°C - 27/19)	EERd Pdc	kW	16.5	20.6	24.7	29.5
	C Condi- tion (25°C - 27/19)	EERd Pdc	kW	8.8	8.5	7.1	7.9
	D Condi- tion (20°C - 27/19)	EERd Pdc	kW	10.6	13.3	15.9	18.9
	E Condi- tion (15°C - 27/19)	EERd Pdc	kW	15.1	17.2	13.1	14.0
Space cooling recommended combination 2	A Condi- tion (35°C - 27/19)	EERd Pdc	kW	8.8	9.3	9.1	8.4
	B Condi- tion (30°C - 27/19)	EERd Pdc	kW	3.0	2.3	2.4	2.6
	C Condi- tion (25°C - 27/19)	EERd Pdc	kW	22.4	28.0	33.5	40.0
	D Condi- tion (20°C - 27/19)	EERd Pdc	kW	5.1	4.7	4.2	4.0
	E Condi- tion (15°C - 27/19)	EERd Pdc	kW	16.5	20.6	24.7	29.5
Space cooling recommended combination 3	A Condi- tion (35°C - 27/19)	EERd Pdc	kW	9.6	8.4	7.7	19.0
	B Condi- tion (30°C - 27/19)	EERd Pdc	kW	10.6	13.3	15.9	
	C Condi- tion (25°C - 27/19)	EERd Pdc	kW	16.0	16.9	13.7	14.0
	D Condi- tion (20°C - 27/19)	EERd Pdc	kW	9.1	9.3	9.4	8.4
	E Condi- tion (15°C - 27/19)	EERd Pdc	kW				

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Technical Specifications				RXYQQ8U	RXYQQ10U	RXYQQ12U	RXYQQ14U
Space heating (Average climate)	TBivalent	COPd (declared COP)		2.5	2.4	2.0	2.3
		Pdh (declared heating cap) kW		13.7	16.0	18.4	20.6
		Tbiv (bivalent temperature) °C		-10			
	TOL	COPd (declared COP)		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		-10			
	A Con- dition (-7°C)	COPd (declared COP)		2.7	2.6	2.4	2.6
		Pdh (declared heating cap) kW		12.1	14.2	16.3	18.2
	B Condi- tion (2°C)	COPd (declared COP)		3.9			3.5
		Pdh (declared heating cap) kW		7.4	8.6	9.9	11.1
Space heating (Average climate) recommended combination 2	C Condi- tion (7°C)	COPd (declared COP)		6.3	6.4	6.1	
		Pdh (declared heating cap) kW		5.0	5.5	6.4	7.1
	D Con- dition (12°C)	COPd (declared COP)		7.9	8.2	7.9	8.5
		Pdh (declared heating cap) kW		5.9		6.3	4.9
	A Con- dition (-7°C)	COPd (declared COP)		2.7		2.4	2.6
		Pdh (declared heating cap) kW		12.1	14.2	16.3	18.2
	B Condi- tion (2°C)	COPd (declared COP)		3.9	4.0	3.9	3.5
		Pdh (declared heating cap) kW		7.4	8.6	9.9	11.1
	C Condi- tion (7°C)	COPd (declared COP)		6.3	6.5	6.1	
		Pdh (declared heating cap) kW		5.0	5.5	6.4	7.1
Space heating (Average climate) recommended combination 3	D Con- dition (12°C)	COPd (declared COP)		7.8	8.3	7.9	8.6
		Pdh (declared heating cap) kW		5.9	6.0	6.4	4.9
	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		-10			
	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 limit) °C		-10			
	A Con- dition (-7°C)	COPd (declared COP)		2.7	2.6	2.4	2.6
		Pdh (declared heating cap) kW		12.1	14.2	16.3	18.2
Capacity range PED	B Condi- tion (2°C)	COPd (declared COP)		3.9	3.7	3.9	3.5
		Pdh (declared heating cap) kW		7.4	8.6	9.9	11.1
		COPd (declared COP)		6.2	6.4	6.0	6.1
	C Condi- tion (7°C)	Pdh (declared heating cap) kW		4.9	5.5	6.4	7.1
		COPd (declared COP)		7.8	8.1	7.8	8.5
	D Con- dition (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
	TBivalent	Pdh (declared heating cap) kW		13.7	16.0	18.4	20.6
		Tbiv (bivalent temperature) °C		-10			
		TOL	COPd (declared COP)		2.5	2.4	2.0
Pdh (declared heating cap) kW			13.7	16.0	18.4	20.6	
Tol (temperature operating limit) °C			-10				
Capacity range		HP	8	10	12	14	
Indoor index connection	Category		Category II				
	Most critical part	Name	Accumulator				
		Ps*V	Bar*I	325			
Maximum number of connectable indoor units			64 (3)				
Dimensions	Unit	Height	mm	1,685			
	Packed unit	Width	mm	930			
Depth		mm	765				
Height		mm	1,820				
Width		mm	995		1,305		
Weight	Unit	kg	198				
	Packed unit	kg	211				
Packing	Material		Carton				
	Weight	kg	1.8				2.2
Packing 2	Material		Wood				
	Weight	kg	11.0				14.0

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Technical Specifications					RXYQQ8U	RXYQQ10U	RXYQQ12U	RXYQQ14U
Packing 3	Material				Plastic			
	Weight		kg		0.5			0.6
Casing	Colour				Daikin White			
	Material				Painted galvanized steel plate			
Heat exchanger	Type				Cross fin coil			
	Indoor side				Air			
	Outdoor side				Air			
	Air flow rate	Cooling	Rated	m³/h	9,720	10,500	11,100	13,380
		Heating	Rated	m³/h	9,720	10,500	11,100	13,380
Fan	Quantity				1			2
	External static pressure	Max.		Pa	78			
Fan motor	Quantity				1			2
	Type				DC motor			
	Output		W		550			750
Compressor	Quantity				1			2
	Type				Hermetically sealed scroll compressor			
	Crankcase heater		W		33			
Operation range	Cooling	Min.	°CDB		-5.0			
		Max.	°CDB		43.0			
	Heating	Min.	°CWB		-20.0			
		Max.	°CWB		15.5			
Sound power level	Cooling	Nom.	dBA		78.0 (4)	79.1 (4)	83.4 (4)	80.9 (4)
	Heating	Prated,h	dBA		79.6 (4)	80.9 (4)	83.5 (4)	83.1 (4)
Sound pressure level	Cooling	Nom.	dBA		57.0 (5)		61.0 (5)	60.0 (5)
Refrigerant	Type				R-410A			
	GWP				2,087.5			
	Charge		TCO2Eq		12.3	12.5	13.2	21.5
	Charge		kg		5.9	6.0	6.3	10.3
Refrigerant oil	Type				Synthetic (ether) oil FVC68D			
Piping connections	Liquid	Type			Brazed connection			
		OD		mm	9.52		12.7	
	Gas	Type			Brazed connection			
		OD		mm	19.1	22.2	28.6	
	Total piping length	System	Actual	m	300 (6)			
Defrost method					Reversed cycle			
Capacity control	Method				Inverter controlled			
Indication if the heater is equipped with a supplementary heater					no			
Supplementary heater	Back-up capacity	Heating	elbu	kW	0.0			
Power consumption in other than active mode	Crankcase heater mode	Cooling	PCK	kW	0.000			
Power consumption in other than active mode	Crankcase heater mode	Heating	PCK	kW	0.052			0.077
	Off mode	Cooling	POFF	kW	0.041			0.074
		Heating	POFF	kW	0.052			0.077
	Standby mode	Cooling	PSB	kW	0.041			0.074
		Heating	PSB	kW	0.052			0.077
	Thermo-stat-off mode	Cooling	PTO	kW	0.005			0.010
		Heating	PTO	kW	0.056			0.097
Cooling	Cdc (Degradation cooling)				0.25			
Heating	Cdh (Degradation heating)				0.25			
Safety devices	Item	01			High pressure switch			
		02			Fan driver overload protector			
		03			Inverter overload protector			
		04			PC board fuse			
		05			Leakage current detector			

Technical Specifications	RXYQQ16U	RXYQQ18U	RXYQQ20U
Recommended combination	4 x FXFQ63AVEB + 2 x FXFQ80AVEB	3 x FXFQ50AVEB + 5 x FXFQ63AVEB	2 x FXFQ50AVEB + 6 x FXFQ63AVEB
Recommended combination 2	4 x FXSQ63A2VEB + 2 x FXSQ80A2VEB	3 x FXSQ50A2VEB + 5 x FXSQ63A2VEB	2 x FXSQ50A2VEB + 6 x FXSQ63A2VEB

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Technical Specifications				RXYQQ16U	RXYQQ18U	RXYQQ20U
Recommended combination 3				4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	3 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	2 x FXMQ50P7VEB + 6 x FXMQ63P7VEB
Cooling capacity	Prated,c		kW	45.0 (1)	50.4 (1)	52.0 (1)
Heating capacity	Nom.	6°CWB	kW	45.0 (2)	50.4 (2)	56.0 (2)
	Prated,h		kW	45.0 (2)	50.4 (2)	56.0 (2)
	Max.	6°CWB	kW	50.0 (2)	56.5 (2)	63.0 (2)
Power input - 50Hz	Heating	Nom.	6°CWB	kW	12.54 (2)	14.22 (2)
COP at nom. capacity	6°CWB		kW/kW	3.59 (2)	3.54 (2)	3.20 (2)
ESEER - Automatic				6.50	6.38	5.67
ESEER - Standard				5.05	4.97	4.42
SCOP				4.0	4.2	4.0
SCOP recommended combination 2				4.1	4.2	4.0
SCOP recommended combination 3				4.0	4.1	3.9
SEER				6.0		5.9
SEER recommended combination 2				5.9	6.0	5.9
SEER recommended combination 3				5.8	6.0	5.9
ηs,c			%	236.5	238.3	233.7
ηs,c recommended combination 2				234.2	236.8	233.9
ηs,c recommended combination 3				230.4	238.2	233.1
ηs,h			%	157.8	163.1	156.6
ηs,h recommended combination 2				159.5	164.8	158.2
ηs,h recommended combination 3				156.8	159.6	153.4
Space cooling	A Condi- tion (35°C - 27/19)	EERd Pdc	kW	2.1	1.9	
	B Condi- tion (30°C - 27/19)	EERd Pdc	kW	45.0	50.4	52.0
	C Condi- tion (25°C - 27/19)	EERd Pdc	kW	3.9	3.8	3.7
	D Condi- tion (20°C - 27/19)	EERd Pdc	kW	33.2	37.1	38.3
Space cooling recommended combination 2	A Condi- tion (35°C - 27/19)	EERd Pdc	kW	7.7	7.5	7.3
	B Condi- tion (30°C - 27/19)	EERd Pdc	kW	21.3	23.9	24.6
	C Condi- tion (25°C - 27/19)	EERd Pdc	kW	14.2	18.3	
	D Condi- tion (20°C - 27/19)	EERd Pdc	kW	9.5	11.5	
Space cooling recommended combination 2	A Condi- tion (35°C - 27/19)	EERd Pdc	kW	2.1	1.9	
	B Condi- tion (30°C - 27/19)	EERd Pdc	kW	45.0	50.4	52.0
	C Condi- tion (25°C - 27/19)	EERd Pdc	kW	3.8	3.7	3.6
	D Condi- tion (20°C - 27/19)	EERd Pdc	kW	33.2	37.1	38.3
Space cooling recommended combination 2	A Condi- tion (35°C - 27/19)	EERd Pdc	kW	7.6	7.5	7.3
	B Condi- tion (30°C - 27/19)	EERd Pdc	kW	21.3	23.9	24.6
	C Condi- tion (25°C - 27/19)	EERd Pdc	kW	14.0	18.1	18.9
	D Condi- tion (20°C - 27/19)	EERd Pdc	kW	9.5	11.4	10.9
Space cooling recommended combination 3	A Condi- tion (35°C - 27/19)	EERd Pdc	kW	2.1	1.9	
	B Condi- tion (30°C - 27/19)	EERd Pdc	kW	45.0	50.4	52.0
	C Condi- tion (25°C - 27/19)	EERd Pdc	kW	3.7	3.6	3.6
	D Condi- tion (20°C - 27/19)	EERd Pdc	kW	33.2	37.1	38.3
Space cooling recommended combination 3	A Condi- tion (35°C - 27/19)	EERd Pdc	kW	7.4	7.6	7.3
	B Condi- tion (30°C - 27/19)	EERd Pdc	kW	21.3	23.9	24.6
	C Condi- tion (25°C - 27/19)	EERd Pdc	kW	14.1	18.3	
	D Condi- tion (20°C - 27/19)	EERd Pdc	kW	9.5	11.6	

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Technical Specifications				RXYQQ16U	RXYQQ18U	RXYQQ20U
Space heating (Average climate)	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 limit) °C			-10	
	A Con- dition (-7°C)	COPd (declared COP)		2.6	2.4	2.1
		Pdh (declared heating cap) kW		20.5	24.7	27.4
	B Condi- tion (2°C)	COPd (declared COP)		3.5	3.7	3.6
		Pdh (declared heating cap) kW		12.5	15.0	16.7
Space heating (Average climate) recommended combination 2	C Condi- tion (7°C)	COPd (declared COP)		6.3	6.7	6.5
		Pdh (declared heating cap) kW		8.0	9.7	10.7
	D Con- dition (12°C)	COPd (declared COP)		8.6	9.0	9.1
		Pdh (declared heating cap) kW		4.9	7.1	
	A Con- dition (-7°C)	COPd (declared COP)		2.6	2.4	2.2
		Pdh (declared heating cap) kW		20.5	24.7	27.4
	B Condi- tion (2°C)	COPd (declared COP)		3.5	3.8	3.7
		Pdh (declared heating cap) kW		12.2	15.0	16.7
	Space heating (Average climate) recommended combination 3	C Condi- tion (7°C)	COPd (declared COP)		6.3	6.8
Pdh (declared heating cap) kW			8.0	9.7	10.7	
D Con- dition (12°C)		COPd (declared COP)		8.7	9.1	9.2
		Pdh (declared heating cap) kW		5.0	7.2	
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 limit) °C			-10	
Capacity range	HP		16	18	20	
PED	Category		Category II			
	Most critical part	Name	Accumulator			
		Ps*V	Bar*I	415	493	
Maximum number of connectable indoor units				64 (3)		
Indoor index connection	Min.			200.0	225.0	250.0
	Max.			520.0	585.0	650.0
Dimensions	Unit	Height	mm	1,685		
		Width	mm	1,240		
		Depth	mm	765		
	Packed unit	Height	mm	1,820		
		Width	mm	1,305		
		Depth	mm	860		
Weight	Unit	kg	275	308		
	Packed unit	kg	291	324		
Packing	Material	Carton				
	Weight	kg	2.2			
Packing 2	Material	Wood				
	Weight	kg	14.0			

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Technical Specifications					RXYQQ16U	RXYQQ18U	RXYQQ20U
Packing 3	Material				Plastic		
	Weight kg				0.6		
Casing	Colour				Daikin White		
	Material				Painted galvanized steel plate		
Heat exchanger	Type				Cross fin coil		
	Indoor side				Air		
	Outdoor side				Air		
	Air flow rate	Cooling	Rated	m³/h	15,600	15,060	15,660
		Heating	Rated	m³/h	15,600	15,060	15,660
Fan	Quantity				2		
	External static pressure	Max.	Pa		78		
Fan motor	Quantity				2		
	Type				DC motor		
	Output W				750		
Compressor	Quantity				2		
	Type				Hermetically sealed scroll compressor		
	Crankcase 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	Type				R-410A		
	GWP				2,087.5		
	Charge TCO2Eq				23.6	24.4	24.6
	Charge kg				11.3	11.7	11.8
Refrigerant oil	Type				Synthetic (ether) oil FVC68D		
Piping connections	Liquid	Type			Braze connection		
		OD	mm		12.7	15.9	
	Gas	Type			Braze connection		
		OD	mm		28.6		
	Total piping length	System	Actual	m	300 (6)		
Defrost method					Reversed cycle		
Capacity control	Method				Inverter controlled		
Indication if the heater is equipped with a supplementary heater					no		
Supplementary heater	Back-up capacity	Heating	elbu	kW	0.0		
Power consumption in other than active mode	Crank-case heater mode	Cooling	PCK	kW	0.000		
Power consumption in other than active mode	Crank-case heater mode	Heating	PCK	kW	0.077	0.089	
		Off mode	Cooling	POFF	kW	0.074	0.075
		Heating	POFF	kW	0.077	0.089	
	Standby mode	Cooling	PSB	kW	0.074	0.075	
		Heating	PSB	kW	0.077	0.089	
	Thermo-stat-off mode	Cooling	PTO	kW	0.010		
		Heating	PTO	kW	0.097	0.098	
	Cooling	Cdc (Degradation cooling)				0.25	
Heating	Cdh (Degradation heating)				0.25		
Safety devices	Item	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;

2 Specifications

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Electrical Specifications				RXYQQ8U	RXYQQ10U	RXYQQ12U	RXYQQ14U
Power supply	Name			Y1			
	Phase			3N~			
	Frequency	Hz		50			
	Voltage	V		380-415			
Power supply intake				Both indoor and outdoor unit			
Voltage range	Min.	%		-10			
	Max.	%		10			
Current	Nominal running current (RLA)	Cooling	A	7.2 (7)	10.2 (7)	12.7 (7)	15.4 (7)
Current - 50Hz	Nominal running current (RLA)	Combina- tion A	Cooling	-			
	Nominal running current (RLA)	Combina- tion B	Cooling	-			
	Starting current (MSC) - remark			See note 8			
	Zmax List			No requirements			
	Minimum Ssc value	kVa		4,050 (9)	5,535 (9)	6,038 (9)	6,793 (9)
	Minimum circuit amps (MCA)	A		16.1 (10)	22.0 (10)	24.0 (10)	27.0 (10)
	Maximum 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 Performance	Power factor	Combina- tion B	35°C ISO - Full load	-			
			46°C ISO - Full load	-			
Wiring connections - 50Hz	For power supply	Quantity		5G			
	For connection with indoor	Quantity		2			
		Remark		F1,F2			

Electrical Specifications				RXYQQ16U	RXYQQ18U	RXYQQ20U
Power supply	Name			Y1		
	Phase			3N~		
	Frequency	Hz		50		
	Voltage	V		380-415		
Power supply intake				Both indoor and outdoor unit		
Voltage range	Min.	%		-10		
	Max.	%		10		
Current	Nominal running current (RLA)	Cooling	A	18.0 (7)	20.8 (7)	26.9 (7)
Current - 50Hz	Nominal running current (RLA)	Combina- tion A	Cooling	-		
	Nominal running current (RLA)	Combina- tion B	Cooling	-		
	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 amps (FLA)	Total	A	2.6 (12)		
Power Performance	Power factor	Combina- tion B	35°C ISO - Full load	-		
			46°C ISO - Full load	-		
Wiring connections - 50Hz	For power supply	Quantity		5G		
	For connection with indoor	Quantity		2		
		Remark		F1,F2		

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

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

(3)Actual number of connectable indoor units depends on the indoor unit type (VRV indoor, Hydrobox, RA indoor, etc.) and the connection ratio restriction for the system (50% ≤ CR ≤ 130%) |

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

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

(6)Refer to refrigerant pipe selection or installation manual |

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

(8)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)In accordance with EN/IEC 61000-3-12, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with Ssc ≥ minimum Ssc value |

2 Specifications

1 - 1 RXYQQ-U

- (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] = $10 \cdot \log[10^{(A/10)} + 10^{(B/10)} + 10^{(C/10)}]$, with Unit A = A dBA, Unit B = B dBA, Unit C = C dBA |
(19)EN/IEC 61000-3-12: European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current > 16A and ≤ 75A per phase |
(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

Technical specifications System					RXYQQ22U	RXYQQ24U	RXYQQ26U	RXYQQ28U
System	Outdoor unit module 1				RXYQQ10U	RXYQQ8U	RXYQQ12U	
	Outdoor unit module 2				RXYQQ12U	RXYQQ16U	RXYQQ14U	RXYQQ16U
Recommended combination					6 x FXFQ50AVEB + 4 x FXFQ63AVEB	4 x FXFQ50AVEB + 4 x FXFQ63AVEB + 2 x FXFQ80AVEB	7 x FXFQ50AVEB + 5 x FXFQ63AVEB	6 x FXFQ50AVEB + 4 x FXFQ63AVEB + 2 x FXFQ80AVEB
Recommended combination 2					6 x FXSQ50A2VEB + 4 x FXSQ63A2VEB	4 x FXSQ50A2VEB + 4 x FXSQ63A2VEB + 2 x FXSQ80A2VEB	7 x FXSQ50A2VEB + 5 x FXSQ63A2VEB	6 x FXSQ50A2VEB + 4 x FXSQ63A2VEB + 2 x FXSQ80A2VEB
Recommended combination 3					6 x FXMQ50P7VEB + 4 x FXMQ63P7VEB	4 x FXMQ50P7VEB + 4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	7 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	6 x FXMQ50P7VEB + 4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB
Cooling capacity	Prated,c		kW		61.5 (1)	67.4 (1)	73.5 (1)	78.5 (1)
Heating capacity	Nom.	6°CWB		kW	61.5 (2)	67.4 (2)	73.5 (2)	78.5 (2)
	Prated,h		kW		61.5 (2)	67.4 (2)	73.5 (2)	78.5 (2)
	Max.	6°CWB		kW	69.0 (2)	75.0 (2)	82.5 (2)	87.5 (2)
Power input - 50Hz	Heating	Nom.	6°CWB		kW	17.23 (2)	17.94 (2)	20.33 (2)
COP at nom. capacity	6°CWB		kW/kW		3.57 (2)	3.76 (2)	3.61 (2)	3.54 (2)
ESEER - Automatic					7.07	6.81	6.89	6.69
ESEER - Standard					5.58	5.42	5.39	5.23
SCOP					4.4	4.3	4.2	
SCOP recommended combination 2					4.4	4.3	4.2	
SCOP recommended combination 3					4.3	4.2		
SEER					6.9	6.8	6.7	6.5
SEER recommended combination 2					6.7	6.6	6.5	6.3
SEER recommended combination 3					6.9	6.7	6.6	6.4
ηs,c					%	274.5	269.9	264.2
ηs,c recommended combination 2						266.5	262.6	256.1
ηs,c recommended combination 3						273.3	265.3	261.1
ηs,h					%	171.2	167.0	164.6
ηs,h recommended combination 2						172.3	167.1	165.4
ηs,h recommended combination 3						170.2	165.5	164.5
Space cooling	A Condi- tion (35°C Pdc - 27/19)	EERd	kW		2.6	2.5	2.6	2.3
					61.5	67.4	73.5	78.5
					4.8	4.6		4.4
					45.3	49.7	54.2	57.8
					8.5	8.6	8.2	8.1
Space cooling recommended combination 2	B Condi- tion (30°C Pdc - 27/19)	EERd	kW		29.1	31.9	34.8	37.2
					16.0	15.2	14.2	14.3
					18.8	15.8	16.2	16.5
					2.6	2.4	2.6	2.3
					61.5	67.4	73.5	78.5
Space cooling recommended combination 3	C Condi- tion (25°C Pdc - 27/19)	EERd	kW		4.6	4.5	4.4	4.3
					45.3	49.7	54.1	57.8
					8.2	8.4	7.9	7.8
					29.1	31.9	34.8	37.2
					15.6	14.7	13.6	13.8
Space cooling recommended combination 4	D Condi- tion (20°C Pdc - 27/19)	EERd	kW		18.4	15.4	15.7	16.5

2 Specifications

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Technical specifications System					RXYQQ22U	RXYQQ24U	RXYQQ26U	RXYQQ28U	
Space cooling recommended combination 3	A Condi- tion (35°C - 27/19)	EERd Pdc	kW		61.5	2.5 67.4	73.5	2.3 78.5	
	B Condi- tion (30°C - 27/19)	EERd Pdc	kW		4.8 45.3	4.5 49.7	54.2	4.3 57.8	
	C Condi- tion (25°C - 27/19)	EERd Pdc	kW		8.5 29.1	8.4 31.9	8.1 34.8	8.0 37.2	
	D Condi- tion (20°C - 27/19)	EERd Pdc	kW		15.8 18.8	15.2 15.7	14.0 16.0	14.1 16.6	
Space heating (Average climate)	TBivalent	COPd (declared COP)			2.3	2.5	2.3	2.2	
		Pdh (declared heating cap)	kW		34.4	36.9	39.0	41.6	
		Tbiv (bivalent temperature)	°C		-10				
	TOL	COPd (declared COP)			2.3	2.5	2.3	2.2	
		Pdh (declared heating cap)	kW		34.4	36.9	39.0	41.6	
		Tol (temperature operating limit)	°C		-10				
	A Con- dition (-7°C)	COPd (declared COP)			2.6	2.8	2.6		
		Pdh (declared heating cap)	kW		30.4	32.6	34.5	36.8	
	B Condi- tion (2°C)	COPd (declared COP)			4.0	3.7	3.8		
	C Condi- tion (7°C)	Pdh (declared heating cap)	kW		18.5	19.9	21.0	22.4	
		COPd (declared COP)			6.3		6.1	6.2	
	D Con- dition (12°C)	Pdh (declared heating cap)	kW		11.9	13.0	13.5	14.4	
		COPd (declared COP)			8.2	8.9	8.8	9.0	
		Pdh (declared heating cap)	kW		6.0	5.7	6.0	6.4	
Space heating (Average climate) recommended combination 2	A Con- dition (-7°C)	COPd (declared COP)			2.6	2.7	2.6		
		Pdh (declared heating cap)	kW		30.4	32.6	34.5	36.8	
	B Condi- tion (2°C)	COPd (declared COP)			4.1	3.7	3.8		
		Pdh (declared heating cap)	kW		18.5	19.9	21.0	22.4	
	C Condi- tion (7°C)	COPd (declared COP)			6.3		6.1	6.3	
		Pdh (declared heating cap)	kW		11.9	13.1	13.5	14.4	
	D Con- dition (12°C)	COPd (declared COP)			8.4	9.0	8.9	9.1	
		Pdh (declared heating cap)	kW		6.0	5.7	6.0	6.4	
	TBivalent	COPd (declared COP)			2.2	2.4	2.2		
		Pdh (declared heating cap)	kW		34.4	36.9	39.0	41.6	
	Space heating (Average climate) recommended combination 2	TBivalent	Tbiv (bivalent temperature) °C			-10			
		TOL	COPd (declared COP)			2.2	2.4	2.2	
			Pdh (declared heating cap)	kW		34.4	36.9	39.0	41.6
			Tol (temperature operating limit) °C			-10			
	Space heating (Average climate) recommended combination 3	A Con- dition (-7°C)	COPd (declared COP)			2.6	2.7	2.6	
Pdh (declared heating cap)			kW		30.4	32.6	34.5	36.8	
B Condi- tion (2°C)		COPd (declared COP)			4.0	3.7	3.8		
		Pdh (declared heating cap)	kW		18.5	19.9	21.0	22.4	
C Condi- tion (7°C)		COPd (declared COP)			6.2	6.3	6.1	6.2	
		Pdh (declared heating cap)	kW		11.9	12.9	13.5	14.4	
D Con- dition (12°C)		COPd (declared COP)			8.2	8.9	8.8	9.0	
		Pdh (declared heating cap)	kW		6.0	5.7	6.0	6.4	
TBivalent		COPd (declared COP)			2.3	2.4	2.2		
		Pdh (declared heating cap)	kW		34.4	36.9	39.0	41.6	
		Tbiv (bivalent temperature) °C			-10				
TOL		COPd (declared COP)			2.3	2.4	2.2		
		Pdh (declared heating cap)	kW		34.4	36.9	39.0	41.6	
		Tol (temperature operating limit) °C			-10				
Capacity range		HP			22	24	26	28	
PED	Category				Category II				
Maximum number of connectable indoor units					64 (3)				
Indoor index connection	Min.				275.0	300.0	325.0	350.0	
	Max.				715.0	780.0	845.0	910.0	
Heat exchanger	Indoor side				Air				
	Outdoor side				Air				
	Air flow rate	Cooling	Rated	m³/h	21,600	25,320	24,480	26,700	
		Heating	Rated	m³/h	21,600	25,320	24,480	26,700	

2 Specifications

1 - 1 RXYQQ-U

2

Technical specifications System					RXYQQ22U	RXYQQ24U	RXYQQ26U	RXYQQ28U
Sound power level	Cooling	Nom.		dBA	84.8 (4)	86.3 (4)	85.3 (4)	87.6 (4)
	Heating	Prated,h		dBA	85.4 (4)	87.3 (4)	86.3 (4)	88.3 (4)
Sound pressure level	Cooling	Nom.		dBA	62.5 (5)	64.0 (5)	63.5 (5)	65.1 (5)
Refrigerant	Type				R-410A			
	GWP				2,087.5			
Refrigerant oil	Type	Synthetic (ether) oil FVC68D						
Piping connections	Liquid	Type				Braze connection		
		OD		mm	15.9		19.1	
	Gas	Type				Braze connection		
		OD		mm	28.6	34.9		
Piping connections	Total piping length	System	Actual	m	300 (6)			
Indication if the heater is equipped with a supplementary heater					no			
Supplementary heater	Back-up capacity	Heating	elbu	kW	0.0			
Power consumption in other than active mode	Crank-case heater mode	Cooling	PCK	kW	0.000			
		Heating	PCK	kW	0.103	0.129		
	Off mode	Cooling	POFF	kW	0.081	0.115		
		Heating	POFF	kW	0.103	0.129		
	Standby mode	Cooling	PSB	kW	0.081	0.115		
		Heating	PSB	kW	0.103	0.129		
	Thermo-stat-off mode	Cooling	PTO	kW	0.009	0.014		
		Heating	PTO	kW	0.113	0.154		
Cooling	Cdc (Degradation cooling)				0.25			
Heating	Cdh (Degradation heating)				0.25			

Technical specifications System					RXYQQ30U	RXYQQ32U	RXYQQ34U	RXYQQ36U
System	Outdoor unit module 1				RXYQQ12U	RXYQQ16U		
	Outdoor unit module 2				RXYQQ18U	RXYQQ16U	RXYQQ18U	RXYQQ20U
Recommended combination					9 x FXFQ50AVEB + 5 x FXFQ63AVEB	8 x FXFQ63AVEB + 4 x FXFQ80AVEB	3 x FXFQ50AVEB + 9 x FXFQ63AVEB + 2 x FXFQ80AVEB	2 x FXFQ50AVEB + 10 x FXFQ63AVEB + 2 x FXFQ80AVEB
Recommended combination 2					9 x FXSQ50A2VEB + 5 x FXSQ63A2VEB	8 x FXSQ63A2VEB + 4 x FXSQ80A2VEB	3 x FXSQ50A2VEB + 9 x FXSQ63A2VEB + 2 x FXSQ80A2VEB	2 x FXSQ50A2VEB + 10 x FXSQ63A2VEB + 2 x FXSQ80A2VEB
Recommended combination 3					9 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	8 x FXMQ63P7VEB + 4 x FXMQ80P7VEB	3 x FXMQ50P7VEB + 9 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	2 x FXMQ50P7VEB + 10 x FXMQ63P7VEB + 2 x FXMQ80P7VEB
Cooling capacity	Prated,c			kW	83.9 (1)	90.0 (1)	95.4 (1)	97.0 (1)
Heating capacity	Nom.	6°CWB		kW	83.9 (2)	90.0 (2)	95.4 (2)	101.0 (2)
	Prated,h			kW	83.9 (2)	90.0 (2)	95.4 (2)	101.0 (2)
	Max.	6°CWB		kW	94.0 (2)	100.0 (2)	106.5 (2)	113.0 (2)
Power input - 50Hz	Heating	Nom.	6°CWB	kW	23.87 (2)	25.08 (2)	26.76 (2)	30.02 (2)
COP at nom. capacity	6°CWB			kW/kW	3.51 (2)	3.59 (2)	3.56 (2)	3.36 (2)
ESEER - Automatic					6.60	6.50	6.44	6.02
ESEER - Standard					5.17	5.05	5.01	4.68
SCOP					4.3	4.2		4.1
SCOP recommended combination 2					4.3	4.2	4.3	4.2
SCOP recommended combination 3					4.3	4.1	4.2	4.1
SEER					6.5	6.4		6.3
SEER recommended combination 2					6.3			
SEER recommended combination 3					6.5	6.2	6.3	
ηs,c				%	256.8	251.7	253.3	250.8
ηs,c recommended combination 2					249.8	248.3	250.9	248.7
ηs,c recommended combination 3					256.1	244.2	249.8	247.2
ηs,h				%	169.8	163.1	166.2	162.4
ηs,h recommended combination 2					170.6	164.6	167.7	164.1
ηs,h recommended combination 3					167.0	161.9	164.2	159.9

2 Specifications

1 - 1 RXYQQ-U

Technical specifications System			RXYQQ30U	RXYQQ32U	RXYQQ34U	RXYQQ36U
Space cooling	A Condi- tion (35°C - 27/19)	EERd Pdc kW	2.1 83.9	2.3 90.0	2.1 95.4	2.1 97.0
	B Condi- tion (30°C - 27/19)	EERd Pdc kW	4.3 61.8		4.2 70.3	4.1 71.5
	C Condi- tion (25°C - 27/19)	EERd Pdc kW	8.2 39.7	8.1 42.6		7.9 45.9
	D Condi- tion (20°C - 27/19)	EERd Pdc kW	16.8 21.0	14.3 19.0	16.8 20.1	16.7 20.4
Space cooling recommended combination 2	A Condi- tion (35°C - 27/19)	EERd Pdc kW	2.1 83.9	2.2 90.0	2.1 95.4	2.1 97.0
	B Condi- tion (30°C - 27/19)	EERd Pdc kW	4.2 61.8		4.1 70.3	4.0 71.5
Space cooling recommended combination 2	C Condi- tion (25°C - 27/19)	EERd Pdc kW	7.9 39.7	8.0 42.6	8.1 45.2	7.9 45.9
	D Condi- tion (20°C - 27/19)	EERd Pdc kW	16.1 20.5	14.0 18.9	16.5 20.1	
Space cooling recommended combination 3	A Condi- tion (35°C - 27/19)	EERd Pdc kW	2.1 83.9	2.2 90.0	2.1 95.4	2.1 97.0
	B Condi- tion (30°C - 27/19)	EERd Pdc kW	4.3 61.8	4.1 66.3		4.0 71.5
	C Condi- tion (25°C - 27/19)	EERd Pdc kW	8.2 39.7	7.8 42.6	8.0 45.2	7.8 45.9
	D Condi- tion (20°C - 27/19)	EERd Pdc kW	16.6 21.0	13.8 19.0	16.6 20.1	16.5 20.4
Space heating (Average climate)	TBivalent	COPd (declared COP)	2.1	2.4	2.2	2.1
		Pdh (declared heating cap) kW	46.3	46.4	51.1	54.2
		Tbiv (bivalent temperature) °C	-10			
	TOL	COPd (declared COP)	2.1	2.4	2.2	2.1
		Pdh (declared heating cap) kW	46.3	46.4	51.1	54.2
		Tol (temperature operating limit) °C	-10			
	A Con- dition (-7°C)	COPd (declared COP)	2.6	2.7	2.6	2.5
		Pdh (declared heating cap) kW	41.0		45.2	47.9
	B Condi- tion (2°C)	COPd (declared COP)	3.9	3.6	3.7	
		Pdh (declared heating cap) kW	24.9	25.0	27.5	29.2
	C Condi- tion (7°C)	COPd (declared COP)	6.5	6.3	6.5	6.4
		Pdh (declared heating cap) kW	16.0	16.1	17.7	18.8
Space heating (Average climate) recommended combination 2	D Con- dition (12°C)	COPd (declared COP)	9.0		8.8	8.6
		Pdh (declared heating cap) kW	7.1		7.9	8.3
	A Con- dition (-7°C)	COPd (declared COP)	2.6	2.7	2.6	2.5
		Pdh (declared heating cap) kW	41.0		45.2	47.9
	B Condi- tion (2°C)	COPd (declared COP)	3.9	3.6	3.8	3.7
		Pdh (declared heating cap) kW	24.9	25.0	27.5	29.2
	C Condi- tion (7°C)	COPd (declared COP)	6.6	6.3	6.6	6.5
		Pdh (declared heating cap) kW	16.0	16.1	17.7	18.8
	D Con- dition (12°C)	COPd (declared COP)	9.1		8.9	8.8
		Pdh (declared heating cap) kW	7.2	7.1	7.9	8.3
Space heating (Average climate) recommended combination 2	TBivalent	COPd (declared COP)	2.1	2.4	2.2	
		Pdh (declared heating cap) kW	46.3	46.4	51.1	54.2
	TOL	COPd (declared COP)	2.1	2.4	2.2	
		Pdh (declared heating cap) kW	46.3	46.4	51.1	54.2
Space heating (Average climate) recommended combination 2		Tol (temperature operating limit) °C	-10			

2 Specifications

1 - 1 RXYQQ-U

2

Technical specifications System					RXYQQ30U		RXYQQ32U		RXYQQ34U		RXYQQ36U	
Space heating (Average climate) recommended combination 3	A Con- dition	COPd (declared COP)			2.5		2.7		2.6		2.4	
		Pd _h (declared heating cap) kW			41.0				45.2		47.9	
	B Condi- tion (2°C)	COPd (declared COP)			3.9		3.6		3.7		3.6	
		Pd _h (declared heating cap) kW			24.9		25.0		27.5		29.2	
	C Condi- tion (7°C)	COPd (declared COP)			6.3				6.4		6.3	
		Pd _h (declared heating cap) kW			16.0		16.1		17.7		18.8	
	D Con- dition (12°C)	COPd (declared COP)			8.6		9.0		8.9		8.3	
		Pd _h (declared heating cap) kW			7.1				7.9		8.3	
	TBivalent	COPd (declared COP)			2.1		2.4		2.2		2.1	
		Pd _h (declared heating cap) kW			46.3		46.4		51.1		54.2	
		Tbiv (bivalent temperature) °C							-10			
	TOL	COPd (declared COP)			2.1		2.4		2.2		2.1	
Pd _h (declared heating cap) kW			46.3		46.4		51.1		54.2			
Tol (temperature operating limit) °C							-10					
Capacity range				HP	30		32		34		36	
PED	Category				Category II							
Maximum number of connectable indoor units					64 (3)							
Indoor index connection	Min.				375.0		400.0		425.0		450.0	
	Max.				975.0		1,040.0		1,105.0		1,170.0	
Heat exchanger	Indoor side				Air							
	Outdoor side				Air							
	Air flow rate	Cooling	Rated	m³/h	26,160		31,200		30,660		31,260	
		Heating	Rated	m³/h	26,160		31,200		30,660		31,260	
Sound power level	Cooling	Nom.		dBA	86.6 (4)		88.6 (4)		87.8 (4)		89.9 (4)	
	Heating	Prated,h		dBA	87.5 (4)		89.5 (4)		88.9 (4)		91.5 (4)	
Sound pressure level	Cooling	Nom.		dBA	64.5 (5)		66.0 (5)		65.5 (5)		67.1 (5)	
Refrigerant	Type				R-410A							
	GWP				2,087.5							
Refrigerant oil	Type				Synthetic (ether) oil FVC68D							
Piping connections	Liquid	Type			Braze connection							
		OD			mm			19.1				
	Gas	Type			Braze connection							
		OD			mm			34.9				
Piping connections	Total piping length	System	Actual	m	300 (6)							
Indication if the heater is equipped with a supplementary 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	PCK	kW	0.000							
		Heating	PCK	kW	0.141		0.154		0.166			
	Off mode	Cooling	POFF	kW	0.116		0.149		0.150			
		Heating	POFF	kW	0.141		0.154		0.166			
	Standby mode	Cooling	PSB	kW	0.116		0.149		0.150			
		Heating	PSB	kW	0.141		0.154		0.166			
	Thermo- stat-off mode	Cooling	PTO	kW	0.014		0.019					
		Heating	PTO	kW	0.155		0.195		0.196			
Cooling	Cdc (Degradation cooling)				0.25							
Heating	Cdh (Degradation heating)				0.25							

Technical specifications System					RXYQQ38U	RXYQQ40U	RXYQQ42U
System	Outdoor unit module 1				RXYQQ8U	RXYQQ10U	
	Outdoor unit module 2				RXYQQ10U	RXYQQ12U	RXYQQ16U
	Outdoor unit module 3				RXYQQ20U	RXYQQ18U	RXYQQ16U
Recommended combination					6 x FXFQ50AVEB + 10 x FXFQ63AVEB	9 x FXFQ50AVEB + 9 x FXFQ63AVEB	12 x FXFQ63AVEB + 4 x FXFQ80AVEB
Recommended combination 2					6 x FXSQ50A2VEB + 10 x FXSQ63A2VEB	9 x FXSQ50A2VEB + 9 x FXSQ63A2VEB	12 x FXSQ63A2VEB + 4 x FXSQ80A2VEB
Recommended combination 3					6 x FXMQ50P7VEB + 10 x FXMQ63P7VEB	9 x FXMQ50P7VEB + 9 x FXMQ63P7VEB	12 x FXMQ63P7VEB + 4 x FXMQ80P7VEB
Cooling capacity	Prated,c		kW		102.4 (1)	111.9 (1)	118.0 (1)
Heating capacity	Nom. 6°CWB		kW		106.4 (2)	111.9 (2)	118.0 (2)
	Prated,h		kW		106.4 (2)	111.9 (2)	118.0 (2)
	Max. 6°CWB		kW		119.5 (2)	125.5 (2)	131.5 (2)
Power input - 50Hz	Heating	Nom.	6°CWB	kW	30.45 (2)	31.45 (2)	32.66 (2)

2 Specifications

1 - 1 RXYQQ-U

Technical specifications System			RXYQQ38U	RXYQQ40U	RXYQQ42U
COP at nom. capacity	6°CWB	kW/kW	3.49 (2)	3.56 (2)	3.61 (2)
ESEER - Automatic			6.36	6.74	6.65
ESEER - Standard			5.03	5.29	5.19
SCOP			4.3		4.2
SCOP recommended combination 2			4.3	4.4	4.3
SCOP recommended combination 3			4.2	4.3	4.2
SEER			6.9	6.7	6.6
SEER recommended combination 2			6.8	6.6	
SEER recommended combination 3			6.9	6.7	6.5
ηs,c		%	272.4	263.5	261.2
ηs,c recommended combination 2			269.2	259.2	259.3
ηs,c recommended combination 3			272.2	263.2	255.4
ηs,h		%	167.5	170.0	165.5
ηs,h recommended combination 2			168.4	171.3	167.3
ηs,h recommended combination 3			164.8	167.8	164.4
Space cooling	A Condi- tion (35°C Pdc - 27/19)	EERd kW	2.4	2.2	2.3
			102.4	111.9	118.0
	B Condi- tion (30°C Pdc - 27/19)	EERd kW	75.5	82.5	86.9
	C Condi- tion (25°C Pdc - 27/19)	EERd kW	8.5	8.3	8.2
			48.5	53.0	55.9
	D Condi- tion (20°C Pdc - 27/19)	EERd kW	17.9	16.0	15.4
			21.6	23.6	24.8
Space cooling recommended combination 2	A Condi- tion (35°C Pdc - 27/19)	EERd kW	2.3	2.2	2.3
			102.4	111.9	118.0
Space cooling recommended combination 2	B Condi- tion (30°C Pdc - 27/19)	EERd kW	4.5	82.4	86.9
			75.4		
	C Condi- tion (25°C Pdc - 27/19)	EERd kW	8.4	8.1	8.2
			48.5	53.0	55.9
	D Condi- tion (20°C Pdc - 27/19)	EERd kW	17.8	15.9	15.3
			21.6	23.6	24.8
Space cooling recommended combination 3	A Condi- tion (35°C Pdc - 27/19)	EERd kW	2.4	2.2	2.3
			102.4	111.9	118.0
	B Condi- tion (30°C Pdc - 27/19)	EERd kW	4.5	4.4	4.3
			75.5	82.5	87.0
	C Condi- tion (25°C Pdc - 27/19)	EERd kW	8.5	8.4	8.0
			48.5	53.0	55.9
	D Condi- tion (20°C Pdc - 27/19)	EERd kW	17.9	16.1	15.2
			21.6	23.6	24.8
Space heating (Average climate)	TBivalent	COPd (declared COP)	2.2		2.4
		Pdh (declared heating cap) kW	60.7	62.3	62.4
		Tbiv (bivalent temperature) °C		-10	
	TOL	COPd (declared COP)	2.2		2.4
		Pdh (declared heating cap) kW	60.7	62.3	62.4
		Tol (temperature operating limit) °C		-10	
	A Con- dition (-7°C)	COPd (declared COP)	2.5	2.6	2.7
		Pdh (declared heating cap) kW	53.7	55.1	55.2
	B Condi- tion (2°C)	COPd (declared COP)	3.9	4.0	3.7
		Pdh (declared heating cap) kW	32.7	33.5	33.6
	C Condi- tion (7°C)	COPd (declared COP)	6.5		6.3
		Pdh (declared heating cap) kW	21.3	21.6	
	D Con- dition (12°C)	COPd (declared COP)	8.7		8.6
		Pdh (declared heating cap) kW	13.1		9.9

2 Specifications

1 - 1 RXYQQ-U

2

Technical specifications System					RXYQQ38U	RXYQQ40U		RXYQQ42U	
Space heating (Average climate) recommended combination 2	A Con- dition (-7°C)	COPd (declared COP)			2.5	2.6		2.7	
		Pd _h (declared heating cap) kW			53.7	55.1		55.2	
	B Condi- tion (2°C)	COPd (declared COP)			3.9	4.0		3.7	
		Pd _h (declared heating cap) kW			32.7	33.5		33.6	
	C Condi- tion (7°C)	COPd (declared COP)			6.5		6.4		
		Pd _h (declared heating cap) kW			21.3	21.6			
	D Con- dition (12°C)	COPd (declared COP)			8.8		8.7		
		Pd _h (declared heating cap) kW			13.2		10.0		
Space heating (Average climate) recommended combination 2	TBivalent	COPd (declared COP)			2.3	2.2		2.4	
		Pd _h (declared heating cap) kW			60.7	62.3		62.4	
	TOL	Tbiv (bivalent temperature) °C			-10				
		COPd (declared COP)			2.3	2.2		2.4	
		Pd _h (declared heating cap) kW			60.7	62.3		62.4	
		Tol (temperature operating limit)			-10				
	Space heating (Average climate) recommended combination 3	A Con- dition (-7°C)	COPd (declared COP)			2.5	2.6		2.7
			Pd _h (declared heating cap) kW			53.7	55.1		55.2
B Condi- tion (2°C)		COPd (declared COP)			3.8	3.9		3.7	
		Pd _h (declared heating cap) kW			32.7	33.5		33.6	
C Condi- tion (7°C)		COPd (declared COP)			6.3	6.4		6.3	
		Pd _h (declared heating cap) kW			21.2	21.6			
D Con- dition (12°C)		COPd (declared COP)			8.5	8.4		8.6	
		Pd _h (declared heating cap) kW			12.9	12.8		9.9	
Capacity range PED	TBivalent	COPd (declared COP)			2.2		2.4		
		Pd _h (declared heating cap) kW			60.7	62.3		62.4	
	TOL	Tbiv (bivalent temperature) °C			-10				
		COPd (declared COP)			2.2		2.4		
		Pd _h (declared heating cap) kW			60.7	62.3		62.4	
		Tol (temperature operating limit)			-10				
	Category				Category II				
	Maximum number of connectable indoor units				64 (3)				
Indoor index connection	Min.				475.0	500.0		525.0	
	Max.				1,235.0	1,300.0		1,365.0	
Heat exchanger	Indoor side				Air				
	Outdoor side				Air				
	Air flow rate	Cooling	Rated	m³/h	35,880	36,660		41,700	
		Heating	Rated	m³/h	35,880	36,660		41,700	
Sound power level	Cooling	Nom.		dBA	88.8 (4)	87.3 (4)		89.1 (4)	
	Heating	Prated,h		dBA	90.7 (4)	88.4 (4)		90.1 (4)	
Sound pressure level	Cooling	Nom.		dBA	66.2 (5)	65.2 (5)		66.5 (5)	
Refrigerant	Type				R-410A				
	GWP				2,087.5				
Refrigerant oil	Type				Synthetic (ether) oil FVC68D				
Piping connections	Liquid	Type			Braze connection				
			OD		19.1				
Piping connections	Gas	Type			Braze connection				
			OD		41.3				
	Total piping length	System	Actual	m	300 (6)				
Indication if the heater is equipped with a supplementary 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	PCK	kW	0.000				
		Heating	PCK	kW	0.192		0.206		
	Off mode	Cooling	POFF	kW	0.157		0.190		
		Heating	POFF	kW	0.192		0.206		
	Standby mode	Cooling	PSB	kW	0.157		0.190		
		Heating	PSB	kW	0.192		0.206		
	Thermo- stat-off mode	Cooling	PTO	kW	0.019		0.024		
		Heating	PTO	kW	0.211		0.251		
Cooling	Cdc (Degradation cooling)				0.25				
Heating	Cdh (Degradation heating)				0.25				

2 Specifications

1 - 1 RXYQQ-U

Electrical specifications System				RXYQQ22U	RXYQQ24U	RXYQQ26U	RXYQQ28U
Power supply	Name			Y1			
	Phase			3N~			
	Frequency		Hz	50			
	Voltage		V	380-415			
Power supply intake				Both indoor and outdoor unit			
Voltage range	Min.		%	-10			
	Max.		%	10			
Current	Nominal running current (RLA)	Cooling	A	22.9 (7)	25.2 (7)	28.1 (7)	30.7 (7)
Current - 50Hz	Nominal running current (RLA)	Combina- tion A Cooling		-			
	Nominal running current (RLA)	Combina- tion B Cooling		-			
	Starting current (MSC) - remark			See note 8			
	Zmax	List		No requirements			
	Minimum Ssc value		kVa	11,573 (9)	11,597 (9)	12,831 (9)	13,585 (9)
	Minimum circuit amps (MCA)		A	46.0 (10)		51.0 (10)	55.0 (10)
	Maximum fuse amps (MFA)		A	63 (11)			
	Power Performance	Power factor	Combina- tion B 35°C ISO - Full load		-		
		46°C ISO - Full load		-			
Wiring connections - 50Hz	For power supply	Quantity		5G			
	For connection with indoor	Quantity		2			
		Remark		F1,F2			

Electrical specifications System				RXYQQ30U	RXYQQ32U	RXYQQ34U	RXYQQ36U
Power supply	Name			Y1			
	Phase			3N~			
	Frequency Hz			50			
	Voltage V			380-415			
Power supply intake				Both indoor and outdoor unit			
Voltage range	Min.		%	-10			
	Max.		%	10			
Current	Nominal running current (RLA)	Cooling	A	33.5 (7)	36.0 (7)	38.8 (7)	44.9 (7)
Current - 50Hz	Nominal running current (RLA)	Combina- tion A	Cooling	-			
	Nominal running current (RLA)	Combina- tion B	Cooling	-			
	Starting current (MSC) - remark			See note 8			
	Zmax	List		No requirements			
	Minimum Ssc value		kVa	14,843 (9)	15,094 (9)	16,352 (9)	17,359 (9)
	Minimum circuit amps (MCA)		A	59.0 (10)	62.0 (10)	66.0 (10)	70.0 (10)
	Maximum fuse amps (MFA)		A	80 (11)			
Power Performance	Power factor	Combina- tion B	35°C ISO - Full load	-			
			46°C ISO - Full load	-			
Wiring connections - 50Hz	For power supply	Quantity		5G			
	For connection with indoor	Quantity Remark		2 F1,F2			

Electrical specifications System				RXYQQ38U	RXYQQ40U	RXYQQ42U
Power supply	Name			Y1		
	Phase			3N~		
	Frequency	Hz		50		
	Voltage	V		380-415		
Power supply intake				Both indoor and outdoor unit		
Voltage range	Min.	%		-10		
	Max.	%		10		
Current	Nominal running current (RLA)	Cooling	A	44.3 (7)	43.7 (7)	46.2 (7)

2 Specifications

1 - 1 RXYQQ-U

2

Electrical specifications System			RXYQQ38U	RXYQQ40U	RXYQQ42U
Current - 50Hz	Nominal running current (RLA)	Combina- Cooling tion A	-		
		Combina- Cooling tion B	-		
	Starting current (MSC) - remark		See note 8		
	Zmax	List	No requirements		
	Minimum Ssc value	kVa	19,397 (9)	20,378 (9)	20,629 (9)
	Minimum circuit amps (MCA)	A	76.0 (10)	81.0 (10)	84.0 (10)
	Maximum fuse amps (MFA)	A	100 (11)		
Power Performance	Power factor	Combina- 35°C ISO - Full load	-		
		tion B 46°C ISO - Full load	-		
Wiring connections - 50Hz	For power supply	Quantity	5G		
	For connection with indoor	Quantity	2		
		Remark	F1,F2		

3 Options

3 - 1 Options

RXYQ-U
RYYQ-U
RYMQ-U
RXYQQ-U

No	Item	RXYQ8U RYYQ8U RXYQQ8U	RXYQ10-12U RYYQ10-12U RXYQQ10-12U	RXYQ14-18U RYYQ14-18U RXYQQ14-18U	RXYQ20U RYYQ20U RXYQQ20U	RYYQ22~54U RXYQ22~54U RXYQQ22~42U		
I.	Refnet header	KHRQ22M29H						
		KHRQ22M64H						
		---	---	---	KHRQ22M75H			
II.	Refnet joint	KHRQ22M20T						
		KHRQ22M29T9						
		KHRQ22M64T						
		---	---	---	KHRQ22M75T			
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-.	KRC19-26A					
1b	Cool/heat selector (PCB)	BRP2A81						
1c	Cool/heat selector (fixing box)	KJB111A						
2	VRV configurator	EKPCCAB*						
3	Heater tape kit PCB	EKBPH012T7A			EKBPH020T7A			
4	Demand PCB	See	DTA104A61/62*					
5	Demand PCB mounting plate	See note -4-.	---			KKS26B81*		

Notes

- All options are kits
- Only for multi units
- To mount option -1a-, option -1c- is required.
- 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

RXYQQ-U

VRV4-Q Heat Pump Indoor unit combination Restrictions

Indoor unit combination pattern	VRV* DX indoor	AHU
VRV* DX indoor	O	X
AHU	X	O

O: Allowed

X: Not allowed

Remarks

1) VRV* DX indoor

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

2) AHU

Connection of air handling unit through EKEQ* and EKEXV* kit to outdoor unit

Pair combination only

3D084966

RXYQQ-U

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

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

Remark

Restrictions towards indoor unit connection:

(1) Only possible to use VRV4-Q if all the indoor units are corresponding to one of the following model groups:

- All R410A DX models
- All Unified models : refer to the limited table above. For some models special setting is required. Please contact your dealer for more information.
- All R22 DX models only models → connection only allowed upon SPN request

(2) If the indoor units are non-R410A models, a special setting on the outdoor unit is required (explained in the installation manual)

(3) Combination of

- Unified models with R410A models is not allowed
- Unified models with R22 models is not allowed
- R410A models with R22 models is not allowed

(4) Replacement of non-R410A AHU systems is possible, only if below requirements are met:

- in case of an existing ERX* system
- if AHU coil and field piping can cope with a design pressure of 33bar
- replacement of control box (EKEQ*) and expansion valve kit (EKEXV*) to R410A type is done
- AHU-installation in pair (1 outdoor to 1 AHU) is used

(5) Limitations on use of DX indoor units with VRV4 -Q Heat Pump is subject to rules mentioned in 3D084965 and 3D084966.

3D085036

4 Combination table

4 - 1 Combination Table

RXYQQ-U

RXYQ-U

RYYQ-U

RYMQ-U

Heat pump VRV4
Multi-unit standard combinations table

		8HP	10HP	12HP	14HP	16HP	20HP
Heat pump	RXYQ8* / RYYQ8* / RXYQ8*	1					
	RXYQ10* / RYYQ10* / RXYQ10*		1				
	RXYQ12* / RYYQ12* / RXYQ12*			1			
	RXYQ14* / RYYQ14* / RXYQ14*				1		
	RXYQ16* / RYYQ16* / RXYQ16*					1	
	RXYQ18* / RYYQ18* / RXYQ18*						1
	RXYQ20* / RYYQ20* / RXYQ20*						1
	RXYQ22* / RYYQ22* / RXYQ22*						
Multi-combination with 2 outdoor units	RXYQ24* / RYYQ24* / RXYQ24*	1	1				
	RXYQ26* / RYYQ26* / RXYQ26*			1	1		
	RXYQ28* / RYYQ28* / RXYQ28*			1		1	
	RXYQ30* / RYYQ30* / RXYQ30*			1			1
	RXYQ32* / RYYQ32* / RXYQ32*					2	
	RXYQ34* / RYYQ34* / RXYQ34*					1	1
	RXYQ36* / RYYQ36* / RXYQ36*					1	1
	RXYQ38* / RYYQ38* / RXYQ38*	1	1				1
Multi-combination with 3 outdoor units	RXYQ40* / RYYQ40* / RXYQ40*		1	1			1
	RXYQ42* / RYYQ42* / RXYQ42*		1		2		
	RXYQ44* / RYYQ44* / RXYQ44*		1		2		
	RXYQ46* / RYYQ46* / RXYQ46*				1	2	
	RXYQ48* / RYYQ48* / RXYQ48*					3	
	RXYQ50* / RYYQ50* / RXYQ50*					2	1
	RXYQ52* / RYYQ52* / RXYQ52*					1	2
	RXYQ54* / RYYQ54* / RXYQ54*						3

Remark

RYYQ8~20 = Single continuous heating

RYYQ22~54 = Multi continuous heating

RXYQ8~20 = Single non-continuous heating

RXYQ22~54 = Multi non-continuous heating

RXYQ8~20 Single non-continuous heating replacement (VRV4-Q)

RXYQ22~54 Multi non-continuous heating replacement (VRV4-Q)

1) For single unit installation RYYQ* units (continuous heating) and RXYQ* units (non-continuous heating)

2) "Non-continuous heating" multi-outdoor-unit combinations consist of RXYQ8~20 units (e.g. RXYQ36~RXYQ16~RXYQ20*).

3) "Continuous heating" multi-outdoor-unit combinations consist of RYYQ8~20 units (e.g. RYYQ36~RYYQ16~RYYQ20*).

→ RYM* units can only be used in multi-outdoor-unit combinations and cannot be used as standalone units.

4) RYYQ8~20* units cannot be used in multi-outdoor-unit combinations.

5) RYYQ8~20 "Continuous heating" multi-outdoor-unit combinations cannot contain RXYQ* units.

6) RXYQ8~20 "Non-continuous heating" multi-outdoor-unit combinations cannot contain RYM* units.

7) Multi "non-continuous heating" replacement models only consist of RXYQ8~20 modules (e.g. RXYQ36~RXYQ16~RXYQ20*).

8) Replacement units cannot be combined with other units.

9) T-series outdoor units and U-series outdoor units cannot share the same refrigerant circuit. When combining these units, make sure they are part of separate refrigerant circuits.

3D120060

REMQ5U

REYQ8-20U

RXYQQ8-20U

RXYTQ8-16UYF

RYYQ8-20U

RYMQ8-20U

Unit combination restrictions: VRV4 outdoor units (all models) + 15-class indoor units

Units in scope: FXZQ15A and FXAQ15A.

- In case the system contains these indoor units and the total connection ratio (CR) ≤ 100%: no special restrictions.
Follow the restrictions that apply to regular VRV DX indoor units.
- In case the system contains these indoor units and the total connection ratio (CR) > 100%: special restrictions apply.
 - 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.
 - When the connection ratio (CR1) of the sum of all FXZQ15A and/or FXAQ15A units in the system ≤ 70%, and NOT ALL other VRV DX indoor units have an individual capacity class > 50: the restrictions below apply.
 - 100% < CR ≤ 105% → CR1 of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be ≤ 70%.
 - 105% < CR ≤ 110% → CR1 of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be ≤ 60%.
 - 110% < CR ≤ 115% → CR1 of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be ≤ 40%.
 - 115% < CR ≤ 120% → CR1 of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be ≤ 25%.
 - 120% < CR ≤ 125% → CR1 of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be ≤ 10%.
 - 125% < CR ≤ 130% → FXZQ15A and FXAQ15A cannot be used

REMARK

Only the 15-class indoor units explicitly mentioned on this page are in scope. Other indoor units follow the rules that apply to regular VRV DX indoor units.

3D104665

5 Capacity tables

5 - 1 Capacity Table Legend

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

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

- **Capacity table database:** lets you find back and export quickly the capacity information you are looking for based upon unit model, refrigerant temperature and connection ratio.
- 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 **all software tools** that we offer can be found here:
https://my.daikin.eu/denv/en_US/home/applications/software-finder.html



5 Capacity tables

5 - 2 Capacity Correction Factor

RXYQQ-U

RXYQ-U

RYYQ-U

RYMQ-U

VRV4

Heat pump

Integrated heating capacity coefficient

The heating capacity tables do not take into account the capacity reduction in case of frost accumulation or defrost operation.
The capacity values that take these factors into account, or in other words, the integrated heating capacity values, can be calculated as follows:

Formula

A = Integrated heating capacity

B = Capacity characteristics value (see table)

C = Integrated correction factor for frost accumulation (see table)

$A = B \cdot C$

Inlet air temperature of heat exchanger

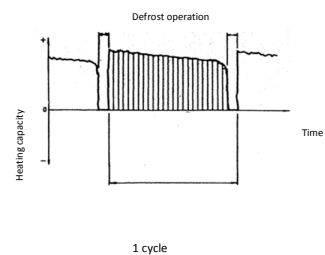
	[°C DB/°C WB]	1/-7/-7,6 or less	-5/-5,6	-3/-3,7	0/-0,7	3/2,2	5/4,1	7/6
Integrated correction factor for frost accumulation C								
8HP	0,95	0,93	0,88	0,84	0,85	0,90	1,00	
10HP	0,95	0,93	0,87	0,79	0,80	0,88	1,00	
12HP	0,95	0,92	0,87	0,75	0,76	0,85	1,00	
14HP	0,95	0,92	0,86	0,72	0,73	0,84	1,00	
16HP	0,95	0,92	0,86	0,72	0,72	0,83	1,00	
18HP	0,95	0,93	0,88	0,84	0,85	0,90	1,00	
20HP	0,95	0,93	0,88	0,84	0,85	0,90	1,00	
22HP	0,95	0,92	0,87	0,77	0,78	0,86	1,00	
24HP	0,95	0,92	0,87	0,75	0,76	0,85	1,00	
26HP	0,95	0,92	0,86	0,73	0,74	0,84	1,00	
28HP	0,95	0,92	0,86	0,73	0,74	0,84	1,00	
30HP	0,95	0,93	0,87	0,80	0,81	0,88	1,00	
32HP	0,95	0,92	0,86	0,71	0,72	0,83	1,00	
34HP	0,95	0,92	0,87	0,78	0,79	0,87	1,00	
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	0,95	0,93	0,87	0,80	0,81	0,88	1,00	
42HP	0,95	0,92	0,86	0,73	0,74	0,84	1,00	
44HP	0,95	0,92	0,86	0,72	0,73	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	0,95	0,92	0,87	0,76	0,77	0,86	1,00	
52HP	0,95	0,93	0,87	0,80	0,81	0,88	1,00	
54HP	0,95	0,93	0,88	0,84	0,85	0,90	1,00	

Notes

The figure shows the integrated heating capacity for a single cycle (from one defrost operation to the next).

When there is an accumulation of snow against the outdoor unit heat exchanger, there will always be a temporary reduction in capacity depending on the outdoor temperature (°C DB), relative humidity (RH) and the amount of frosting which occurs.

The multi-combination data 22~54HP corresponds with the standard multi-combination of drawing 3D079534.



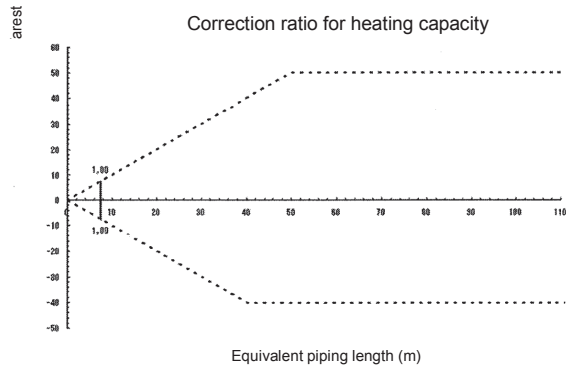
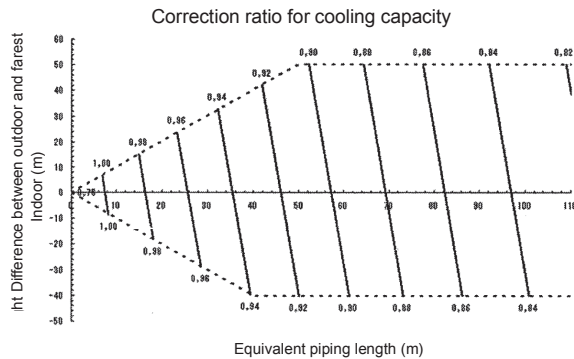
3D079898A

5 Capacity tables

5 - 2 Capacity Correction Factor

RXYQQ8U
RXYQ8U
RYYQ8U
RYMQ8U

5



NOTES

- These figures illustrate the correction ratio for piping length in capacity for a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, shown in the above figures.

- With this outdoor unit, constant evaporating pressure control when cooling and constant condensing pressure control when heating is carried out.

- Method of calculating the capacity of the outdoor units

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

Condition: Indoor connection ratio does not exceed 100%.

$$\begin{array}{|c|} \hline \text{Maximum capacity of outdoor units} \\ \hline \end{array} = \begin{array}{|c|} \hline \text{Capacity of outdoor units from capacity table at the 100\% connection ratio} \\ \hline \end{array} \times \begin{array}{|c|} \hline \text{Correction ratio of piping to furthest indoor} \\ \hline \end{array}$$

Condition: Indoor connection ratio exceeds 100%.

$$\begin{array}{|c|} \hline \text{Maximum capacity of outdoor units} \\ \hline \end{array} = \begin{array}{|c|} \hline \text{Capacity of outdoor units from capacity table at installed connection ratio} \\ \hline \end{array} \times \begin{array}{|c|} \hline \text{Correction ratio of piping to furthest indoor} \\ \hline \end{array}$$

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

Model	Gas	Liquid
8HP	22.2	12.7

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

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

Diameter of main pipes (standard size)

Model	Gas	Liquid
8HP	19.1	9.5

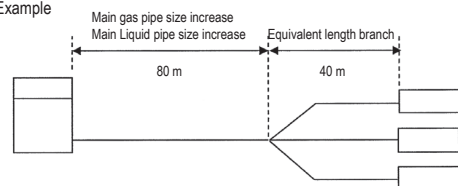
- Equivalent length used in the above figures is based upon the following equivalent length

$$\begin{array}{|c|} \hline \text{Equivalent piping length} \\ \hline \end{array} = \begin{array}{|c|} \hline \text{Equivalent length of main pipe} \\ \hline \end{array} \times \begin{array}{|c|} \hline \text{Correction factor} \\ \hline \end{array} + \begin{array}{|c|} \hline \text{Equivalent length of branch pipes} \\ \hline \end{array}$$

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

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

Example



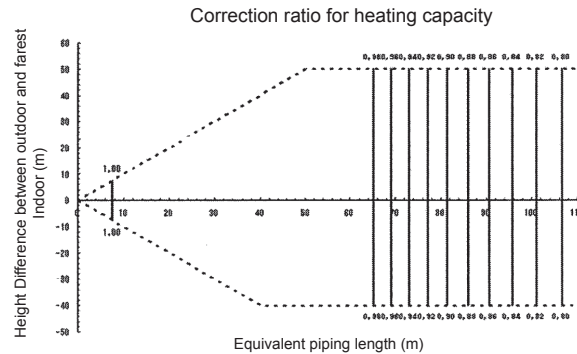
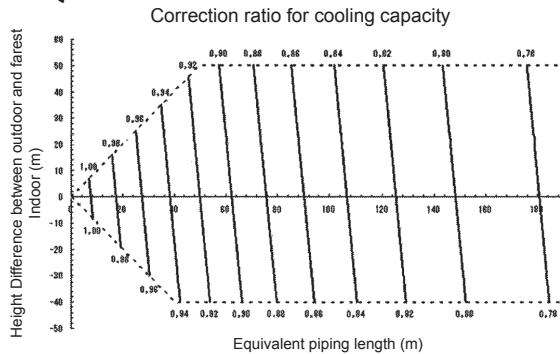
In the above case (Cooling) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m
(Heating) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m
The rate of change in cooling capacity when height difference = 0 is thus approximately 0.86
heating capacity when height difference = 0 is thus approximately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

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5 Capacity tables

5 - 2 Capacity Correction Factor

RXYQQ10U
RXYQ10U
RYYQ10U
RYMQ10U



NOTES

- These figures illustrate the correction ratio for piping length in capacity for a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, shown in the above figures.

- With this outdoor unit, constant evaporating pressure control when cooling and constant condensing pressure control when heating is carried out.

Method of calculating the capacity of the outdoor units

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

Condition: Indoor connection ratio does not exceed 100%.

$$\text{Maximum capacity of outdoor units} = \text{Capacity of outdoor units from capacity table at the 100\% connection ratio} \times \text{Correction ratio of piping to furthest indoor}$$

Condition: Indoor connection ratio exceeds 100%.

$$\text{Maximum capacity of outdoor units} = \text{Capacity of outdoor units from capacity table at installed connection ratio} \times \text{Correction ratio of piping to furthest indoor}$$

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

Model	Gas	Liquid
RXYQ10P	25.4*	12.7

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

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

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

Diameter of main pipes (standard size)

Model	Gas	Liquid
10 HP	22.2	9.5

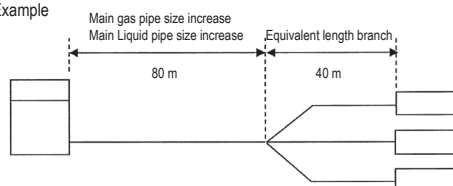
- Equivalent length used in the above figures is based upon the following equivalent length

$$\text{Equivalent piping length} = \text{Equivalent length of main pipe} \times \text{Correction factor} + \text{Equivalent length of branch pipes}$$

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

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

Example



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

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

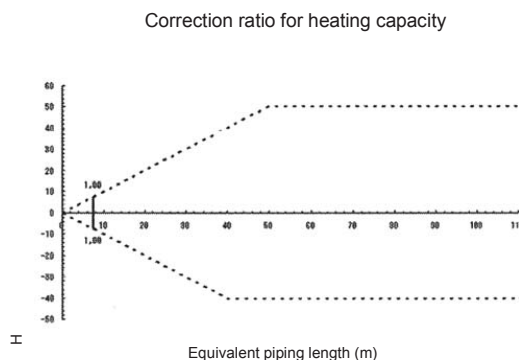
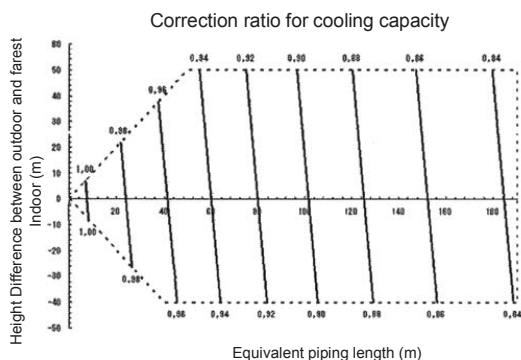
3D079897A

5 Capacity tables

5 - 2 Capacity Correction Factor

5

RXYQQ12,14,16,24,36U
RXYQ12,14,24,36U
RYYQ12,14,24,36U
RYMQ12,14U



NOTES

- These figures illustrate the correction ratio for piping length in capacity for a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, shown in the above figures.
- With this outdoor unit, constant evaporating pressure control when cooling and constant condensing pressure control when heating is carried out.
- Method of calculating the capacity of the outdoor units
The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is smaller.

Condition: Indoor connection ratio does not exceed 100%.

$$\begin{aligned} \text{Maximum capacity of outdoor units} &= \text{Capacity of outdoor units from capacity table at the 100\% connection ratio} \\ &\times \text{Correction ratio of piping to furthest indoor} \end{aligned}$$

Condition: Indoor connection ratio exceeds 100%.

$$\begin{aligned} \text{Maximum capacity of outdoor units} &= \text{Capacity of outdoor units from capacity table at installed connection ratio} \\ &\times \text{Correction ratio of piping to furthest indoor} \end{aligned}$$

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

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

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

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

Diameter of main pipes (standard size)

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

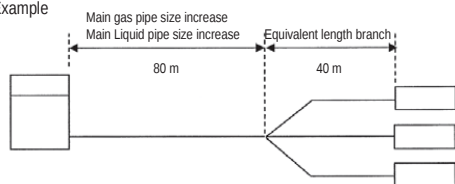
- Equivalent length used in the above figures is based upon the following equivalent length

$$\begin{aligned} \text{Equivalent piping length} &= \\ \text{Equivalent length of main pipe} &\times \text{Correction factor} \\ + \\ \text{Equivalent length of branch pipes} \end{aligned}$$

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

	Correction factor	
	Standard size	Size increase
Cooling (gas pipe)	1.0	0.89
Heating (liquid pipe)	1.0	0.5

Example



In the above case (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

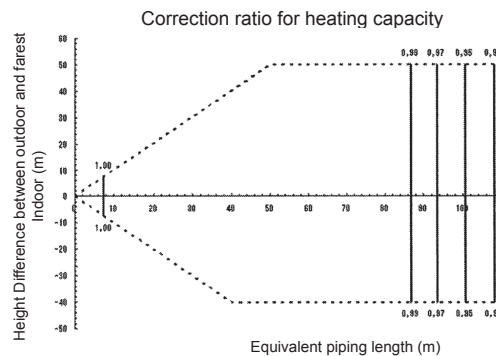
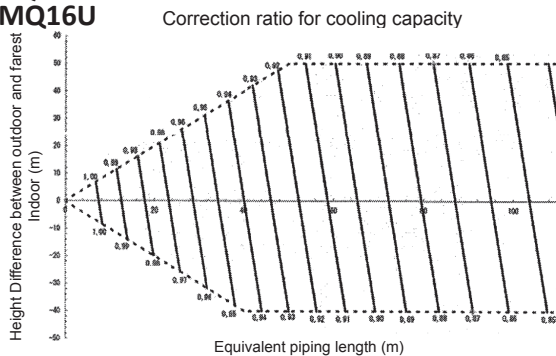
The rate of change in cooling capacity when height difference = 0 is thus approximately 0.89
heating capacity when height difference = 0 is thus approximately 1.0

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5 Capacity tables

5 - 2 Capacity Correction Factor

RXYQQ16U
RXYQ16U
RYYQ16U
RYMQ16U



NOTES

- These figures illustrate the correction ratio for piping length in capacity for a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, shown in the above figures.
- With this outdoor unit, constant evaporating pressure control when cooling and constant condensing pressure control when heating is carried out.
- Method of calculating the capacity of the outdoor units
The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is smaller.

Condition: Indoor connection ratio does not exceed 100%.

$$\text{Maximum capacity of outdoor units} = \text{Capacity of outdoor units from capacity table at the 100\% connection ratio} \times \text{Correction ratio of piping to furthest indoor}$$

Condition: Indoor connection ratio exceeds 100%.

$$\text{Maximum capacity of outdoor units} = \text{Capacity of outdoor units from capacity table at installed connection ratio} \times \text{Correction ratio of piping to furthest indoor}$$

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

Model	Gas	Liquid
16 HP	31.8"	15.9

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

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

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

Diameter of main pipes (standard size)

Model	Gas	Liquid
16 HP	28.6	12.7

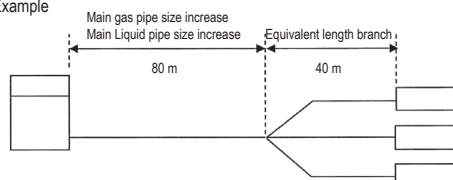
- Equivalent length used in the above figures is based upon the following equivalent length

$$\text{Equivalent piping length} = \text{Equivalent length of main pipe} \times \text{Correction factor} + \text{Equivalent length of branch pipes}$$

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

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

Example



In the above case (Cooling) Overall equivalent length = 80 m x 1.0 + 40 m = 80 m
(Heating) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m

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

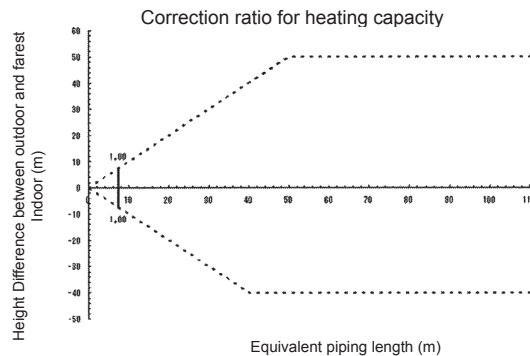
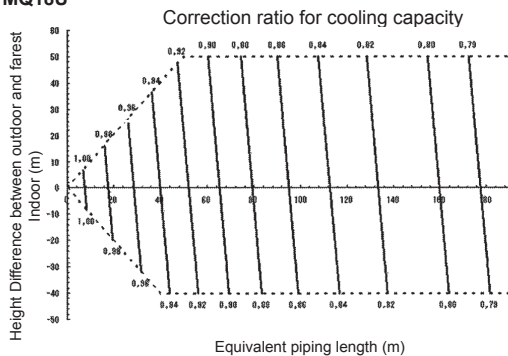
3D079897A

5 Capacity tables

5 - 2 Capacity Correction Factor

5

RXYQQ18,26,28,30,38,40,42,44U
RXYQ18,26,28,30,38,40,42,44U
RYYQ18,26,28,30,38,40,42,44U
RYMQ18U



NOTES

- These figures illustrate the correction ratio for piping length in capacity for a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, shown in the above figures.
- With this outdoor unit, constant evaporating pressure control when cooling and constant condensing pressure control when heating is carried out.
- Method of calculating the capacity of the outdoor units
The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is smaller.

Condition: Indoor connection ratio does not exceed 100%.

$$\text{Maximum capacity of outdoor units} = \text{Capacity of outdoor units from capacity table at the 100\% connection ratio} \times \text{Correction ratio of piping to furthest indoor}$$

Condition: Indoor connection ratio exceeds 100%.

$$\text{Maximum capacity of outdoor units} = \text{Capacity of outdoor units from capacity table at installed connection ratio} \times \text{Correction ratio of piping to furthest indoor}$$

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

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

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

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

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

Diameter of main pipes (standard size)

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

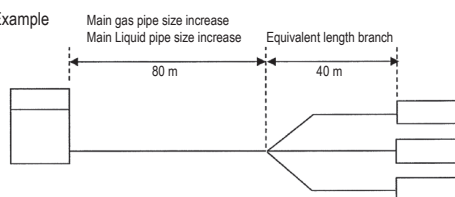
- Equivalent length used in the above figures is based upon the following equivalent length

$$\text{Equivalent piping length} = \text{Equivalent length of main pipe} \times \text{Correction factor} + \text{Equivalent length of branch pipes}$$

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

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

Example



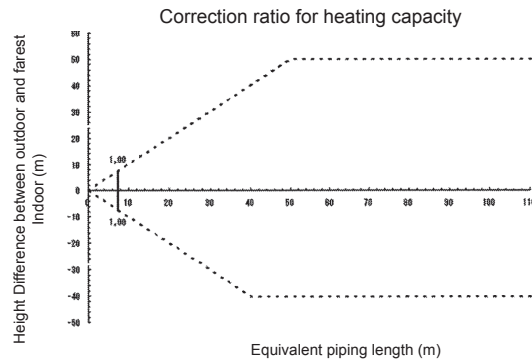
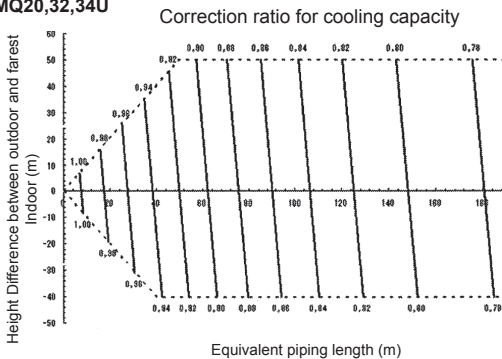
In the above case (for RXYQ38-44) (Cooling) Overall equivalent length = 80 m x 1.0 + 40 m = 120 m
(Heating) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m
The rate of change in cooling capacity when height difference = 0 is thus approximately 0.83
heating capacity when height difference = 0 is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

3D079897A

5 Capacity tables

5 - 2 Capacity Correction Factor

RXYQQ20,32,34U
RXYQ20,32,34U
RYYQ20,32,34U
RYMQ20,32,34U



NOTES

- These figures illustrate the correction ratio for piping length in capacity for a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, shown in the above figures.
- With this outdoor unit, constant evaporating pressure control when cooling and constant condensing pressure control when heating is carried out.
- Method of calculating the capacity of the outdoor units
The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is smaller.

Condition: Indoor connection ratio does not exceed 100%.

$$\text{Maximum capacity of outdoor units} = \text{Capacity of outdoor units from capacity table at the 100\% connection ratio} \times \text{Correction ratio of piping to furthest indoor}$$

Condition: Indoor connection ratio exceeds 100%.

$$\text{Maximum capacity of outdoor units} = \text{Capacity of outdoor units from capacity table at installed connection ratio} \times \text{Correction ratio of piping to furthest indoor}$$

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

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

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

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

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

Diameter of main pipes (standard size)

Model	Gas	Liquid
20 HP	28.6	15.9
32/34 HP	34.9	19.1

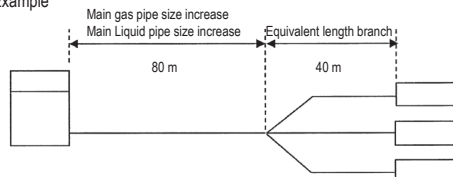
- Equivalent length used in the above figures is based upon the following equivalent length

$$\text{Equivalent piping length} = \text{Equivalent length of main pipe} \times \text{Correction factor} + \text{Equivalent length of branch pipes}$$

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

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

Example



In the above case (Cooling) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m
(Heating) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m
The rate of change in cooling capacity when height difference = 0 is thus approximately 0.88
heating capacity when height difference = 0 is thus approximately 1.0

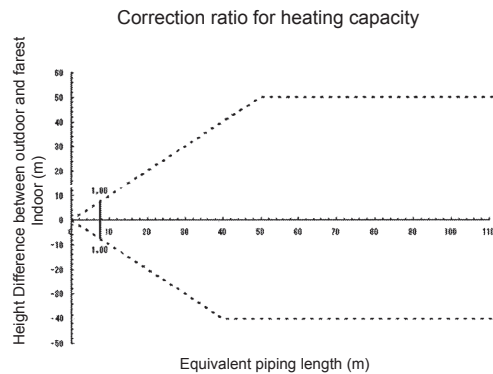
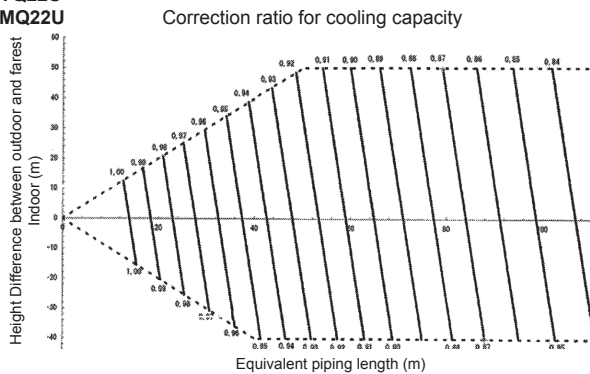
3D079897A

5 Capacity tables

5 - 2 Capacity Correction Factor

5

RXYQQ22U
RXYQ22U
RYYQ22U
RYMQ22U



NOTES

- These figures illustrate the correction ratio for piping length in capacity for a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, shown in the above figures.
- With this outdoor unit, constant evaporating pressure control when cooling and constant condensing pressure control when heating is carried out.
- Method of calculating the capacity of the outdoor units
The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is smaller.

Condition: Indoor connection ratio does not exceed 100%.

$$\text{Maximum capacity of outdoor units} = \text{Capacity of outdoor units from capacity table at the 100\% connection ratio} \times \text{Correction ratio of piping to furthest indoor}$$

Condition: Indoor connection ratio exceeds 100%.

$$\text{Maximum capacity of outdoor units} = \text{Capacity of outdoor units from capacity table at installed connection ratio} \times \text{Correction ratio of piping to furthest indoor}$$

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

Model	Gas	Liquid
22 HP	31.8*	19.1

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

- When the pipe length after the first refrigerant branch kit is more than 40 m, pipe size between first and final branch kit must be increased (only for VRV DX indoor units; details see installation manual).
*Refer to the installation manual for allowed system setups and rules for dedicated indoor connection types.

Diameter of main pipes (standard size)

Model	Gas	Liquid
22 HP	28.6	15.9

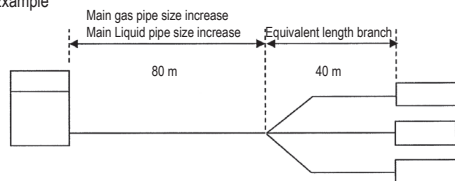
- Equivalent length used in the above figures is based upon the following equivalent length

$$\text{Overall equivalent length} = \text{Equivalent length of main pipe} \times \text{Correction factor} + \text{Equivalent length of branch pipes}$$

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

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

Example



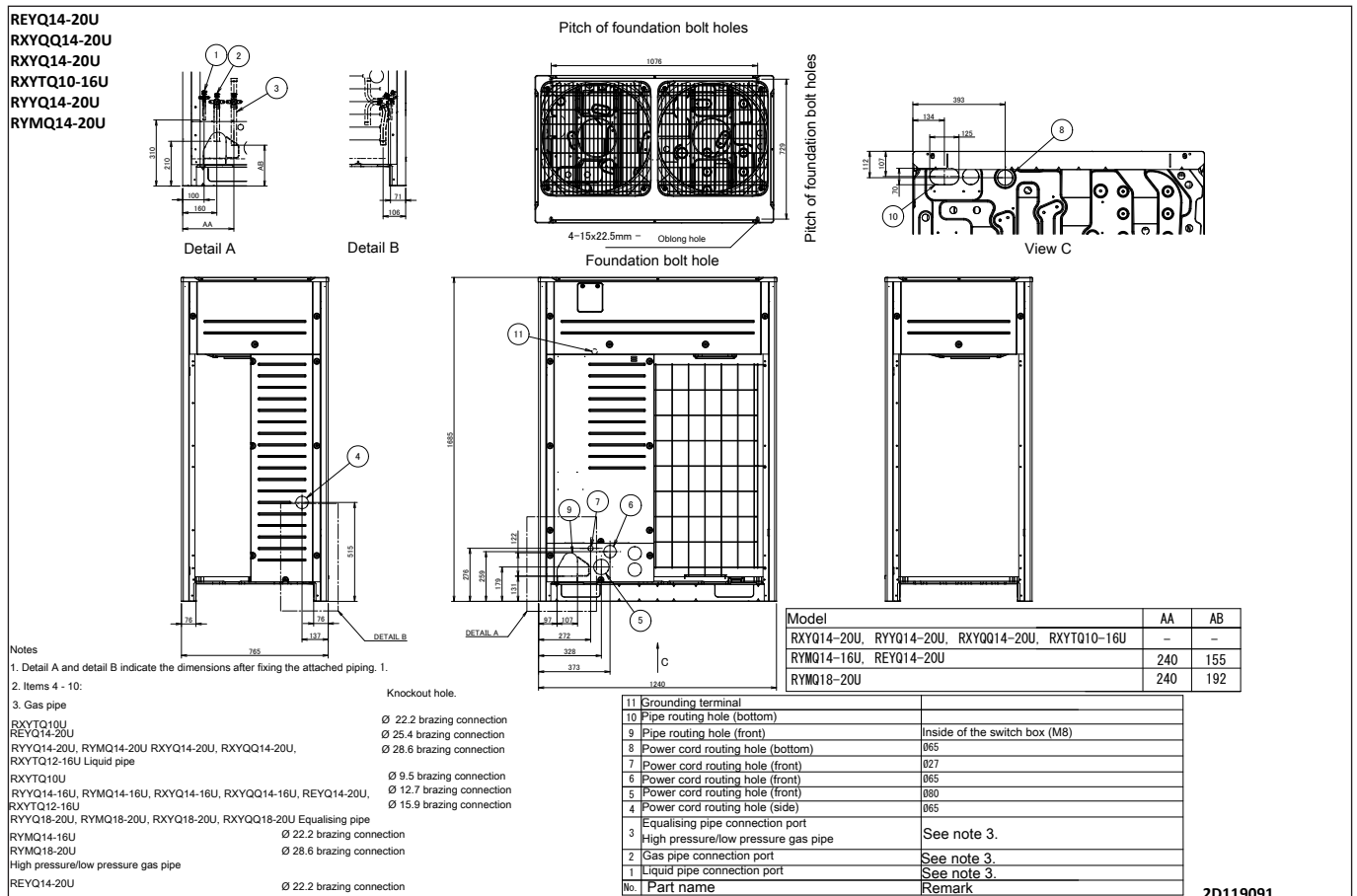
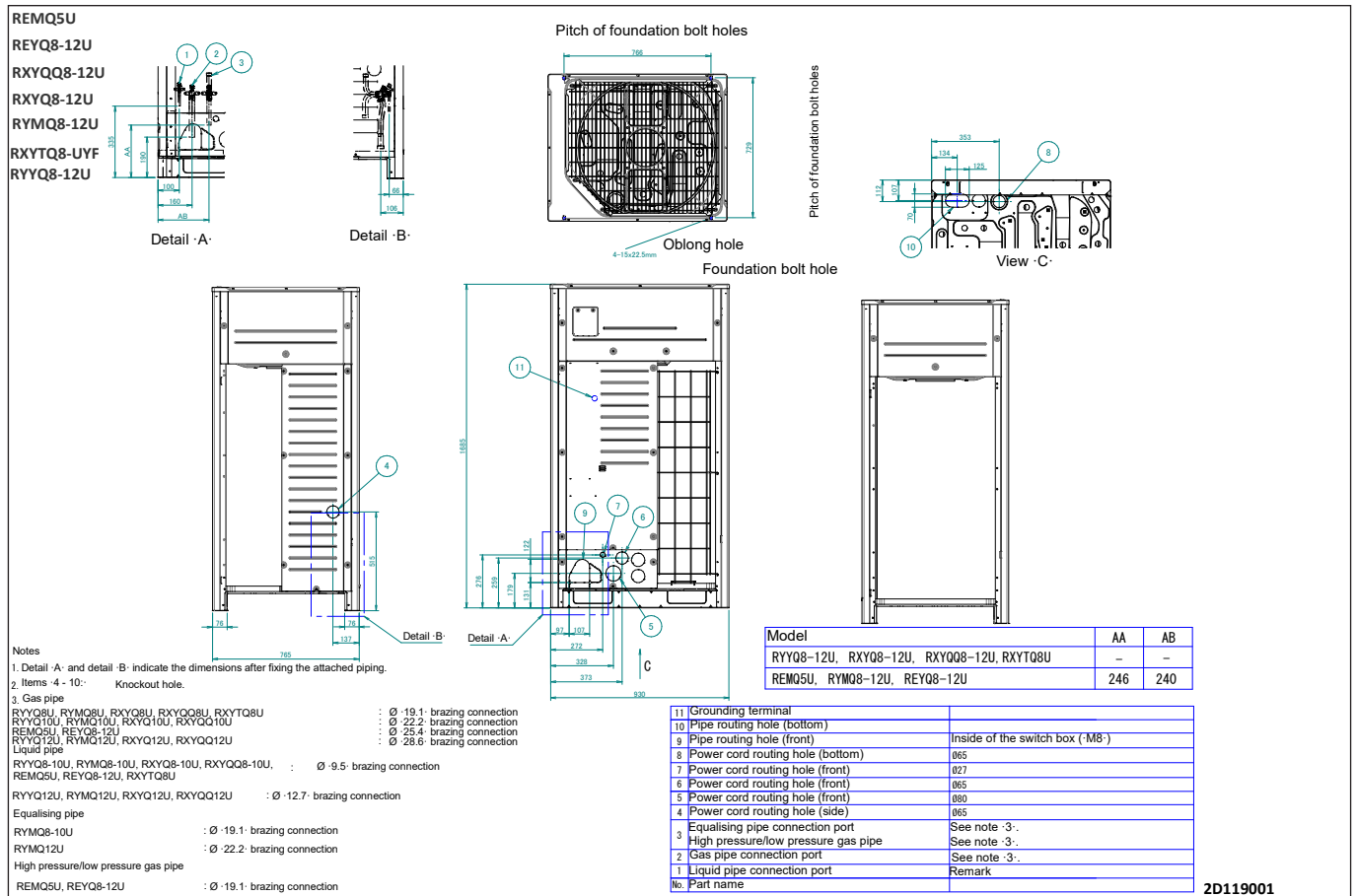
In the above case (Cooling) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m
(Heating) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m

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

3D079897A

6 Dimensional drawings

6 - 1 Dimensional Drawings



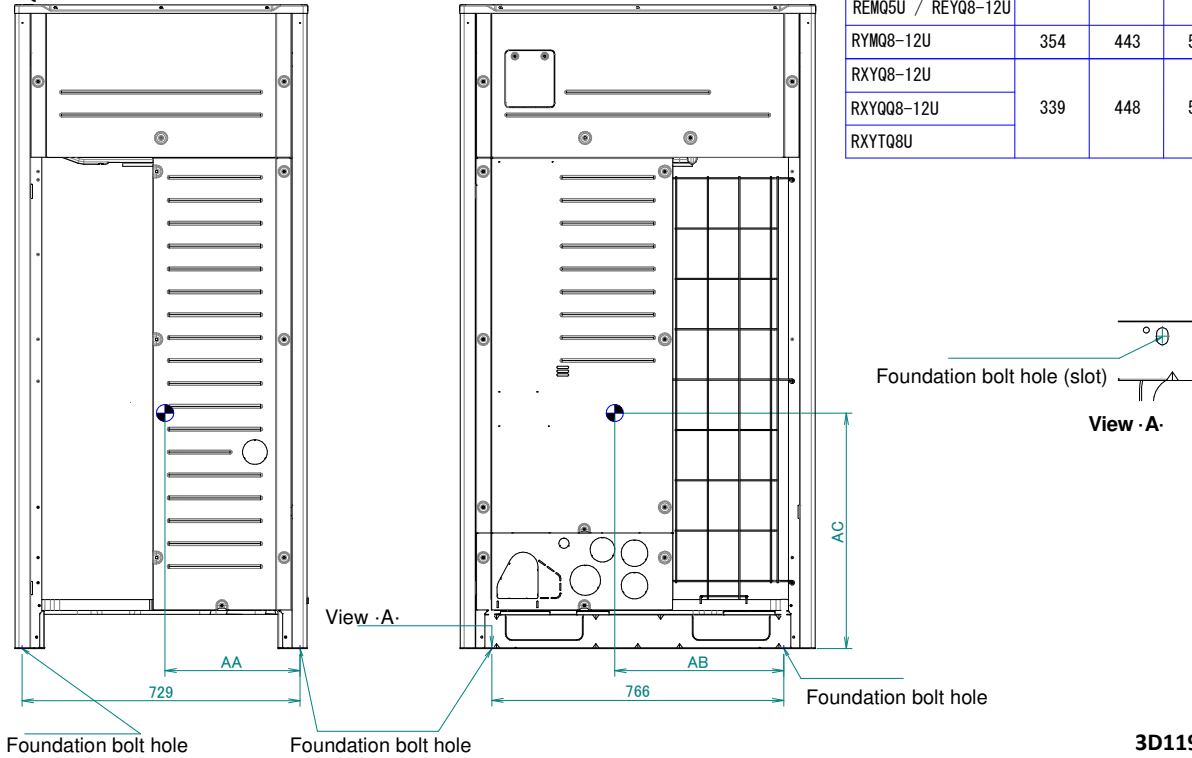
7 Centre of gravity

7 - 1 Centre of Gravity

7

RXYQQ8-12U
RXYQ8-12U
RXYTQ8U
RYYQ8-12U
RYMQ8-12U

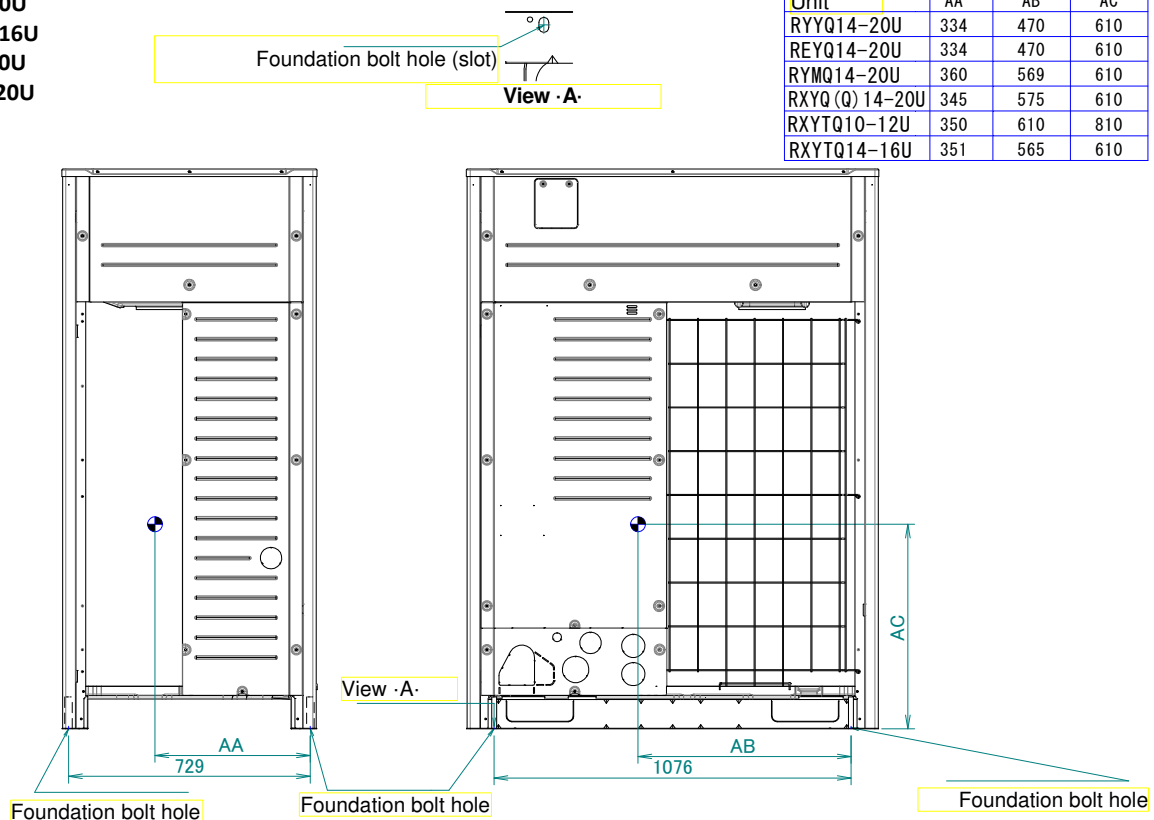
Unit	AA	AB	AC
RYYQ8-12U	328	366	565
REMQ5U / REYQ8-12U			
RYMQ8-12U	354	443	565
RXYQ8-12U	339	448	565
RXYQQ8-12U			
RXYTQ8U			



3D119703

RXYQQ14-20U
RXYQ14-20U
RXYTQ10-16U
RYYQ14-20U
RYMQ14-20U

Unit	AA	AB	AC
RYYQ14-20U	334	470	610
REYQ14-20U	334	470	610
RYMQ14-20U	360	569	610
RXYQ (Q) 14-20U	345	575	610
RXYTQ10-12U	350	610	810
RXYTQ14-16U	351	565	610

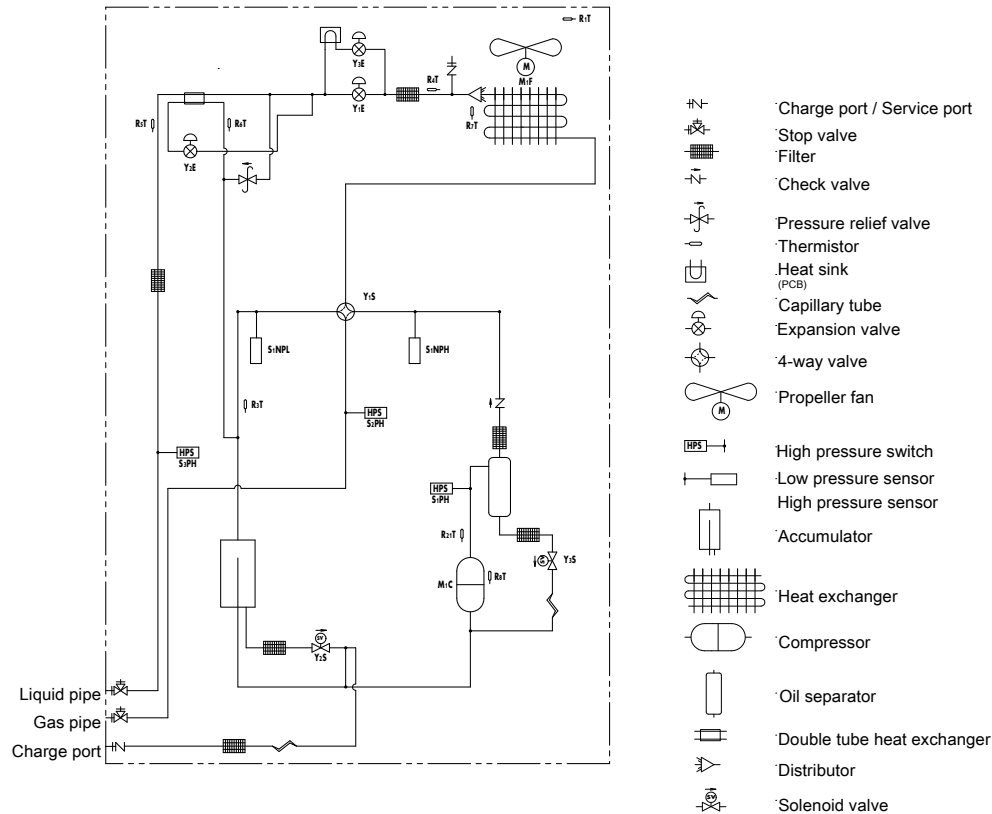


3D119704

8 Piping diagrams

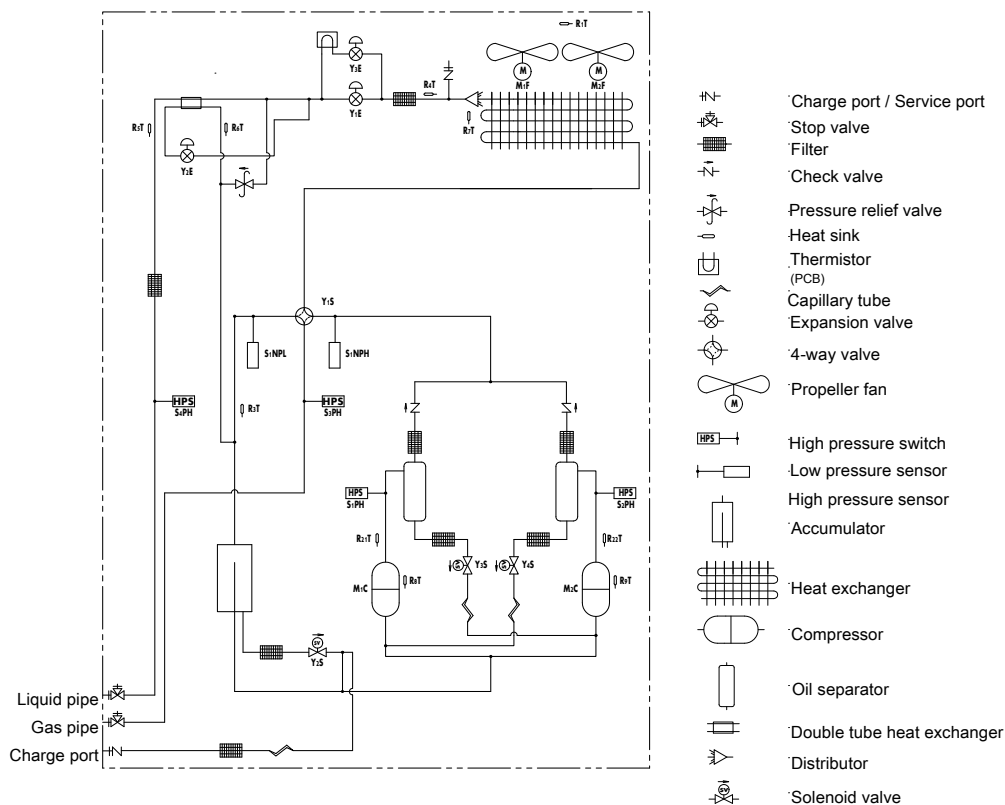
8 - 1 Piping Diagrams

RXYQQ8-12U



3D118181

RXYQQ14-20U

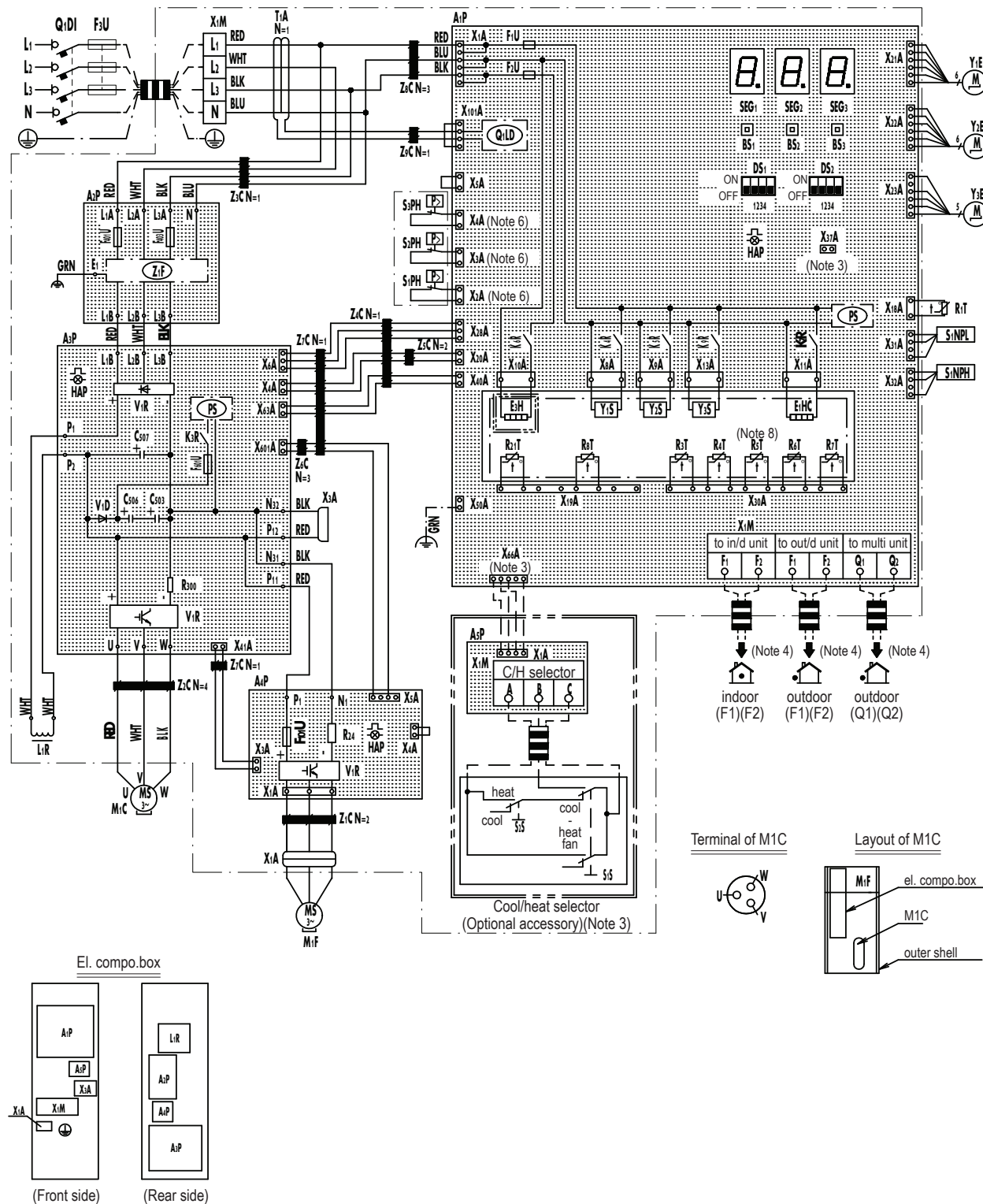


3D118182

9 - 1 Wiring Diagrams - Three Phase

Wiring diagram

3N~ 380-415V 50Hz
3N~ 380V 60Hz



2D117535

9 Wiring diagrams

9 - 1 Wiring Diagrams - Three Phase

RXYQQ8-12U

A1P	Printed Circuit Board (Main)	R4T	Thermistor (Heat Exc,Liq,Pipe)
A2P	Printed Circuit Board (Noise Filter)	R5T	Thermistor (Subcool,Liq,Pipe)
A3P	Printed Circuit Board (Inv)	R6T	Thermistor (Heat Exc,Gas Pipe)
A4P	Printed Circuit Board (Fan)	R7T	Thermistor (Heat Exc,Deicer)
A5P	Printed Circuit Board (ABC I/P)(Option)	R8T	Thermistor (M1C body)
BS1~3 (A1P)	Push Button Switch (Mode,Set,Return)	R21T	Thermistor (M1C discharge)
C503,C506,C507 (A3P)	Capacitor	S1NPH	Pressure Sensor (High)
DS1,DS2 (A1P)	DIP Switch	S1NPL	Pressure Sensor (Low)
E1HC	Crankcase Heater	S1PH	Pressure Switch (Disch)
E3H	Drainpan Heater (Option)	S2PH	Pressure Switch (Gas)
F1U,F2U (A1P)	Fuse (T,3,15A,250V)	S3PH	Pressure Switch (Liquid)
F3U	Field Fuse	SEG1~SEG3 (A1P)	7-Segment Display
F101U (A4P)	Fuse	T1A	Current Sensor
F401U,F403U (A2P)	Fuse	V1D (A3P)	Diode
F601U (A3P)	Fuse	V1R (A3P,A4P)	Power Module
HAP (A1P,A3P, A4P)	Pilotlamp (Service Monitor-Green)	X*A	Connector
K3R (A3P)	Magnetic Relay	X1M (A1P)	Terminal Block (Control)
K4R (A1P)	Magnetic Relay (Y1S)	X1M (A5P)	Terminal Block (Power Supply)(Option)
K5R (A1P)	Magnetic Relay (Y2S)	Y1E	Electronic Expansion Valve(Main)
K6R (A1P)	Magnetic Relay (E3H)	Y2E	Electronic Expansion Valve (Injection)
K7R (A1P)	Magnetic Relay (E1HC)	Y3E	Electronic Expansion Valve (Refrigerant Jacket)
K9R (A1P)	Magnetic Relay (Y3S)	Y1S	Solenoid Valve (Main)
L1R	Reactor	Y2S	Solenoid Valve (Accumulator Oil Return)
M1C	Motor (Compressor)	Y3S	Solenoid Valve (Oil1)
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	Connector 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 Cool/Heat Selector)
R1T	Thermistor (Air)		
R3T	Thermistor (Accumulator)		

NOTES

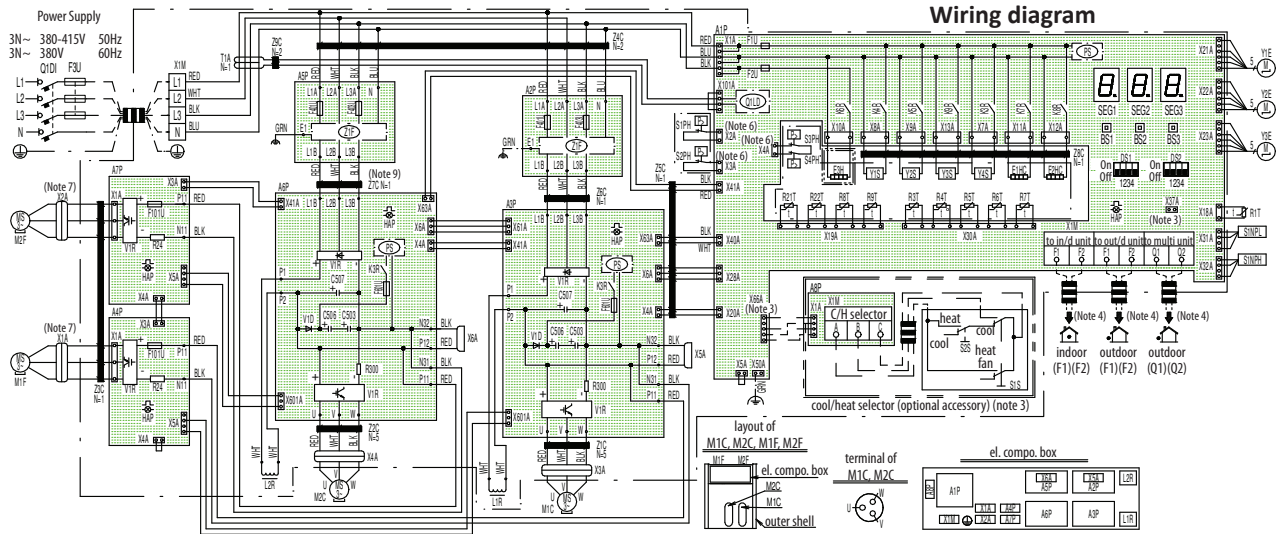
1. This wiring diagram applies only to the outdoor unit.
2. : field wiring, : terminal block, : connector, : terminal, : protective earth (screw), : functional earth, : earth wiring, : field supply, : PCB, : switch box, : option
3. When using the optional adapter, refer to the installation manual of 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,S2PH,S3PH).
7. Colors: BLK: Black, RED: Red, BLU: Blue, WHT: White, GRN: Green.

2D117535

9 Wiring diagrams

9 - 1 Wiring Diagrams - Three Phase

RXYQQ14-20U



A1P	Printed circuit board (main)	S1NPL	Pressure sensor (low)
A2P, A5P	Printed circuit board (noise filter)	S1PH, S2PH	Pressure switch (disch)
A3P, A6P	Printed circuit board (inv.)	S3PH	Pressure switch (gas)
A4P, A7P	Printed circuit board (fan)	S4PH	Pressure switch (liquid)
A8P	Printed circuit board (ABC I/P)	SEG1~SEG3 (A1P)	7-Segment display
BS1~3 (A1P)	Push button switch (mode, set, return)	T1A	Current sensor
C503, C506, C507 (A3P, A6P)	Capacitor	V1D (A3P, A6P)	Diode
DS1, DS2 (A1P)	DIP switch	V1R (A3P, A4P, A6P, A7P)	Power module
E1HC, E2HC	Crankcase heater	X*A	CONNECTOR
E3H	Drainpan heater (option)	X1M (A1P)	Terminal block (control)
F1U, F2U (A1P)	Fuse (T, 3.15A, 250V)	X1M (A8P)	Terminal block (power supply)
F3U	Field fuse	Y1E	Electronic expansion valve (main)
F101U (A4P, A7P)	Fuse	Y2E	Electronic expansion valve (injection)
F101U, F403U (A2P, A5P)	Fuse	Y3E	Electronic expansion valve (refrigerant jacket)
F601U (A3P, A6P)	Fuse	Y1S	Solenoid valve (main)
HAP (A1P, A3P, A4P, A6P, A7P)	Pilotlamp (service monitor-green)	Y2S	Solenoid valve (accumulator oil return)
K3R (A3P, A6P)	Magnetic relay	Y3S	Solenoid valve (oil1)
K3R (A1P)	Magnetic relay (Y4S)	Y4S	Solenoid valve (oil2)
K4R (A1P)	Magnetic relay (Y1S)	Z*C	Noise filter (ferrite core)
K5R (A1P)	Magnetic relay (Y2S)	Z*F (A2P, A5P)	Noise filter (with surge absorber)
K6R (A1P)	Magnetic relay (E3H)		
K7R (A1P)	Magnetic relay (E1HC)		
K8R (A1P)	Magnetic relay (E2HC)		
K9R (A1P)	Magnetic relay (Y3S)		
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)		

NOTES

- This wiring diagram applies only to the outdoor unit
- Field wiring: ; terminal block, ; connector, ; connection, ; protective earth (screw), ; noiseless earth, ; earth wiring, ; field supply, ; PCB, ; switch box, ; options,
- When using the optional adapter, refer to the installation manual of the optional adapter.
- For connection wiring to indoor-outdoor transmission F1-F2, outdoor-outdoor transmission F1-F2, 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, S3PH, S4PH)
- Connector X1A (M1F) is red, connector X2A (M2F) is white.
- Colors: BLK: black, RED: red, BLU: blue, WHT: white, GRN: green.
- Only for 14,16 class.

2D117537C

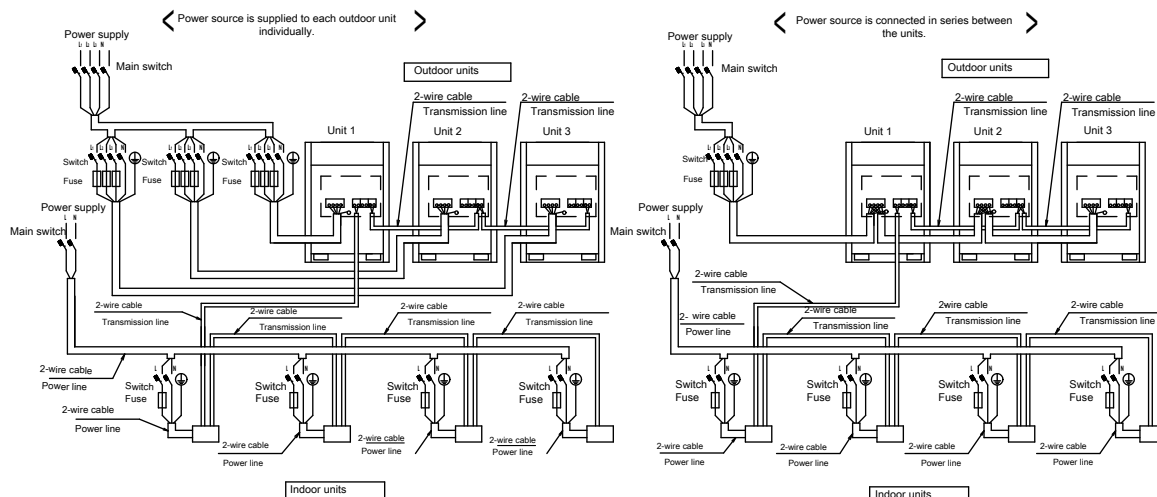
10 External connection diagrams

10 - 1 External Connection Diagrams

RXYQQ8-20U
RXYQ8-20U
RXYTQ8-16UYF
RYYQ8-20U
RYMQ8-20U

Notes

1. All wiring, components and materials to be procured on-site must comply with the applicable legislation.
2. Use copper conductors only
3. For details, refer to the wiring diagram attached to the outdoor unit.
4. Install a circuit breaker for safety.
5. All field wiring and components must be provided by an authorised electrician.
6. Unit has to be grounded in compliance with the applicable legislation.
7. The wiring shown is a general points-of-connection guide and is not intended to include all details for a specific installation.
8. Make sure to install the switch and the fuse to the power line of each equipment.
9. Install a main switch to control the multiple power sources that the various components of the system make use of.
10. The capacity of UNIT1 must be larger than that of UNIT2 when the power source is connected in series between the units.
 The capacity of UNIT 2 must be larger than that of UNIT3 when the power source is connected in series between the units.
11. If there exists the possibility of reversed phase, loose phase or momentary blackout, or if the power goes on and off while the product is operating, attach a reversed phase protection circuit locally.
 Running the product in reversed phase may break the compressor and other parts.
12. Install an earth leakage circuit breaker.

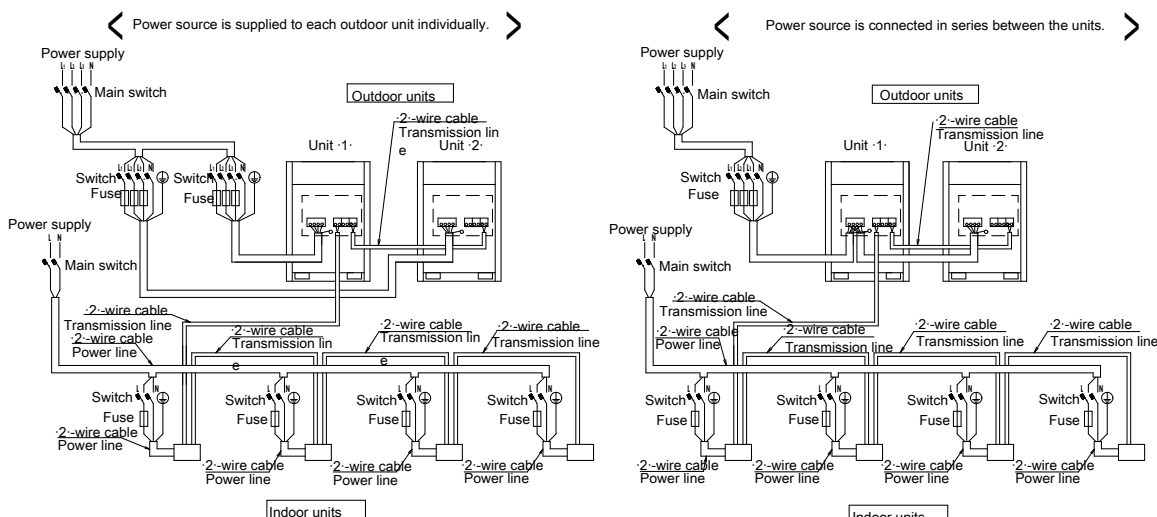


3D119200

RXYQQ8-20U
RXYQ8-20U
RXYTQ8-16U
RYYQ8-20U
RYMQ8-26U

Notes

1. All wiring, components and materials to be procured on-site must comply with the applicable legislation.
2. Use copper conductors only
3. For details, refer to the wiring diagram attached to the outdoor unit.
4. Install a circuit breaker for safety.
5. All field wiring and components must be provided by an authorised electrician.
6. Unit has to be grounded in compliance with the applicable legislation.
7. The wiring shown is a general points-of-connection guide and is not intended to include all details for a specific installation.
8. Make sure to install the switch and the fuse to the power line of each equipment.
9. Install a main switch to control the multiple power sources that the various components of the system make use of.
10. The capacity of UNIT1 must be larger than that of UNIT2 when the power source is connected in series between the units.
11. If there exists the possibility of reversed phase, loose phase or momentary blackout, or if the power goes on and off while the product is operating, attach a reversed phase protection circuit locally.
 Running the product in reversed phase may break the compressor and other parts.
12. Install an earth leakage circuit breaker.



3D119316

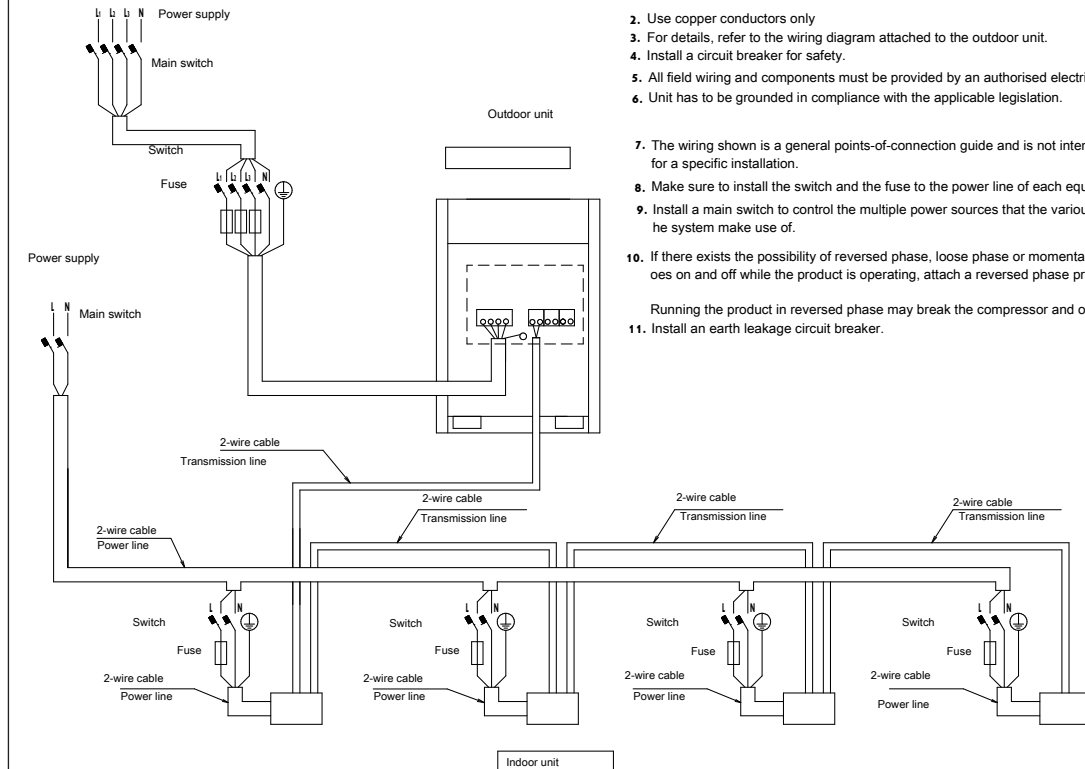
10 External connection diagrams

10 - 1 External Connection Diagrams

RXYQQ8-20U
RXYQ8-20U
RYYQ8-20U
RYMQ8-20U
RXYTQ8-16UYF

Notes

1. All wiring, components and materials to be procured on-site must comply with the applicable legislation.
2. Use copper conductors only
3. For details, refer to the wiring diagram attached to the outdoor unit.
4. Install a circuit breaker for safety.
5. All field wiring and components must be provided by an authorised electrician.
6. Unit has to be grounded in compliance with the applicable legislation.
7. The wiring shown is a general points-of-connection guide and is not intended to include all details for a specific installation.
8. Make sure to install the switch and the fuse to the power line of each equipment.
9. Install a main switch to control the multiple power sources that the various components of the system make use of.
10. If there exists the possibility of reversed phase, loose phase or momentary blackout, or if the power goes on and off while the product is operating, attach a reversed phase protection circuit locally.
- Running the product in reversed phase may break the compressor and other parts.
11. Install an earth leakage circuit breaker.

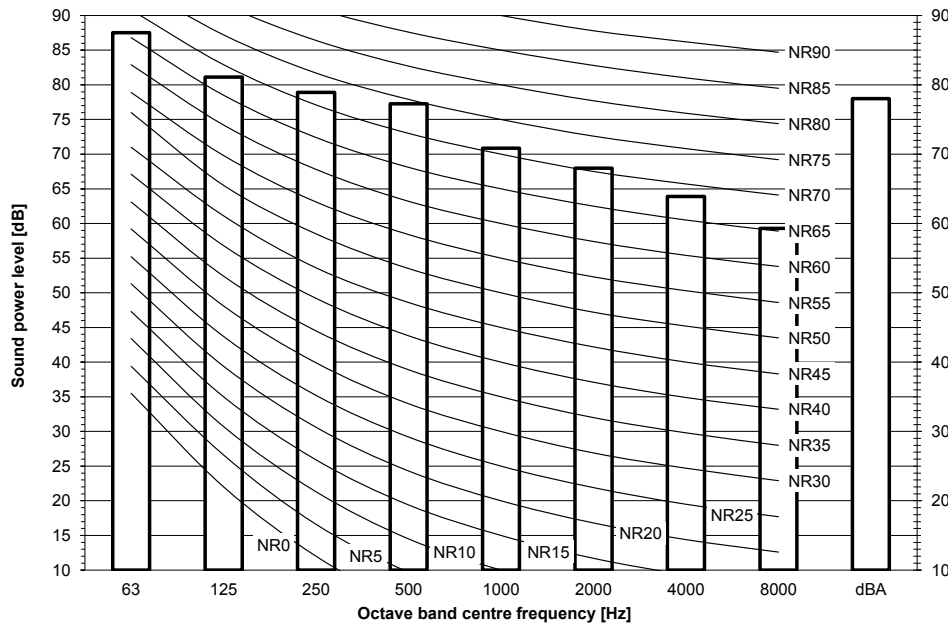


3D119317

11 Sound data

11 - 1 Sound Power Spectrum

REMQ5U
REYQ8U
RXYQQ8U
RXYQ8U
RXYTQ8UYF
RYYQ8U
RYMQ8U

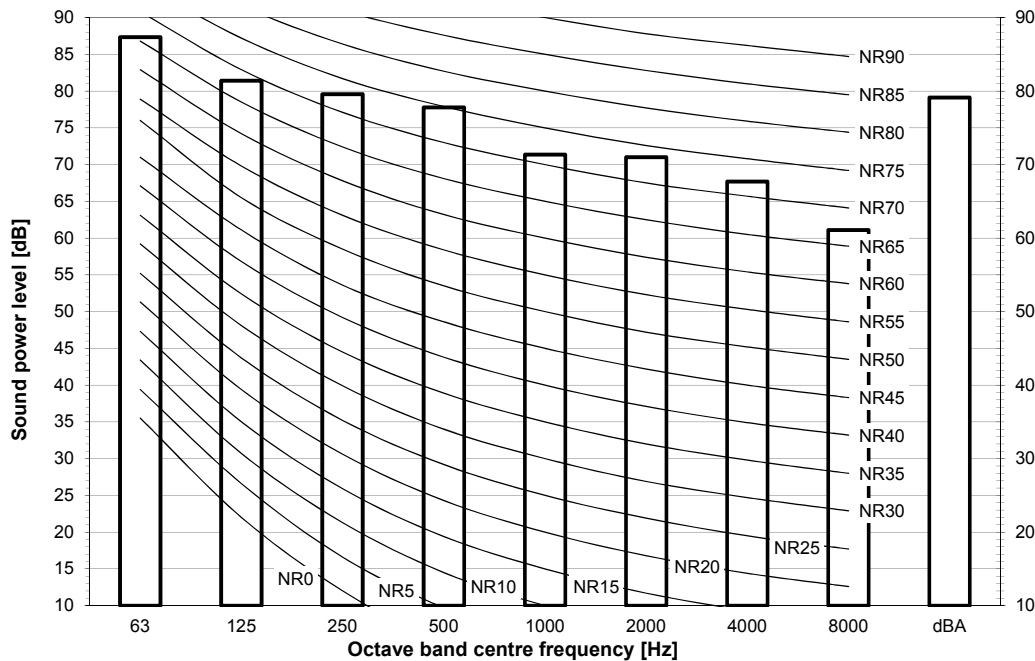


Notes

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

3D119528

REYQ10U
RXYQQ10U
RXYQ10U
RYYQ10U
RYMQ10U



Notes

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

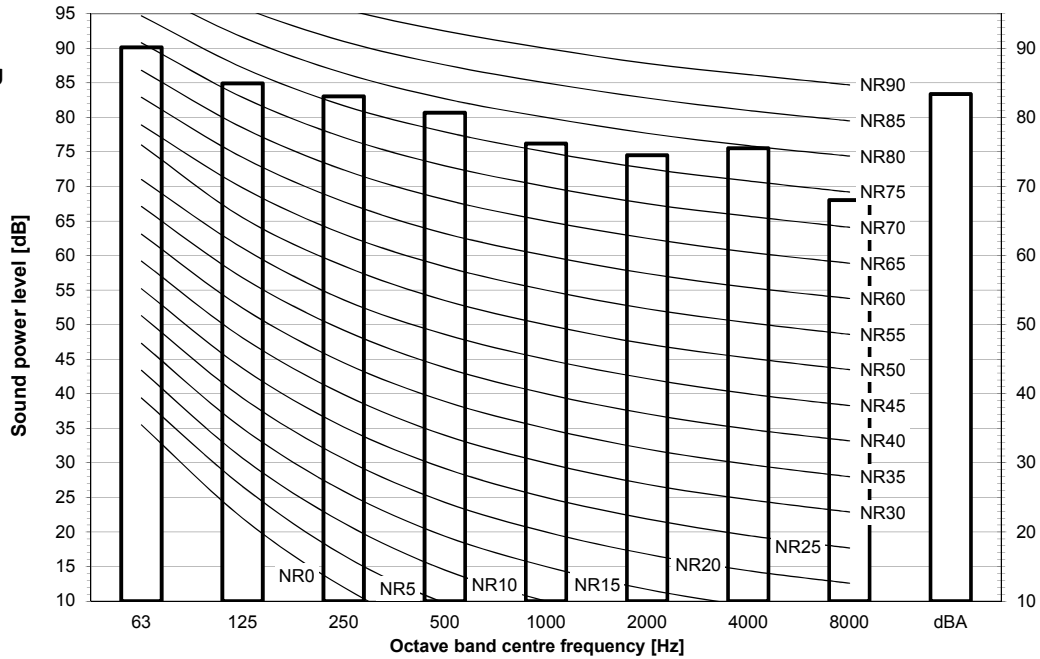
3D119529

11 Sound data

11 - 1 Sound Power Spectrum

11

REYQ12U
RXYQQ12U
RXYQ12U
RYYQ12U
RYMQ12U



Notes

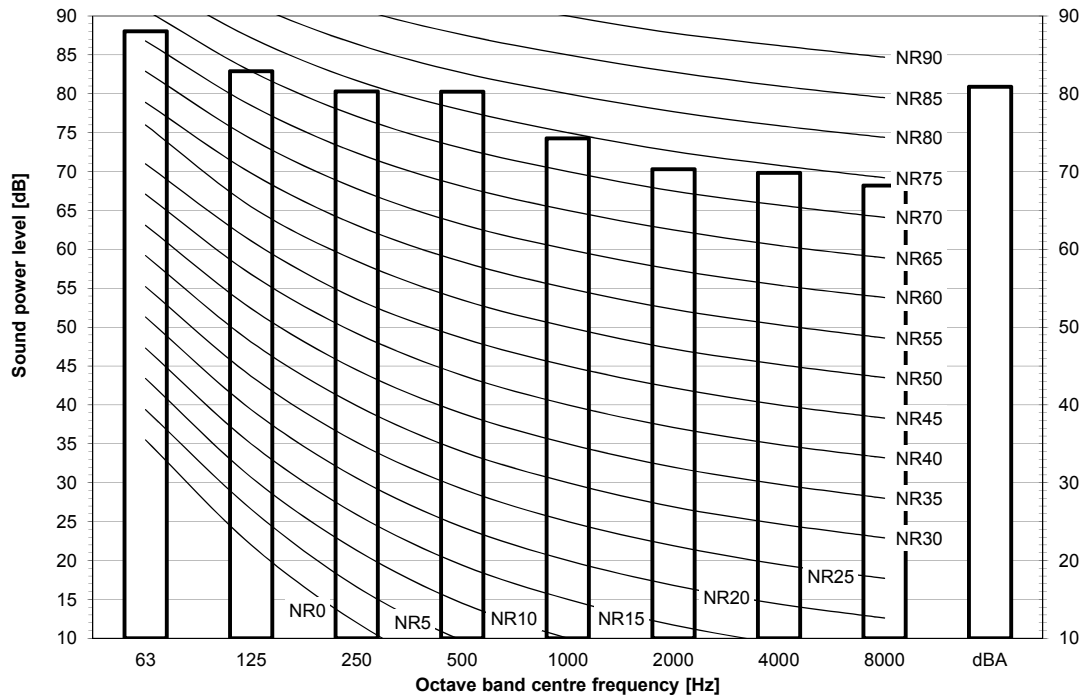
dBA = A-weighted sound power level (A scale according to IEC).

Reference acoustic intensity 0dB = $10E-6\mu W/m^2$

Measured according to ISO 3744

3D119530

REYQ14U
RXYQQ14U
RXYQ14U
RYYQ14U
RYMQ14U



Notes

dBA = A-weighted sound power level (A scale according to IEC).

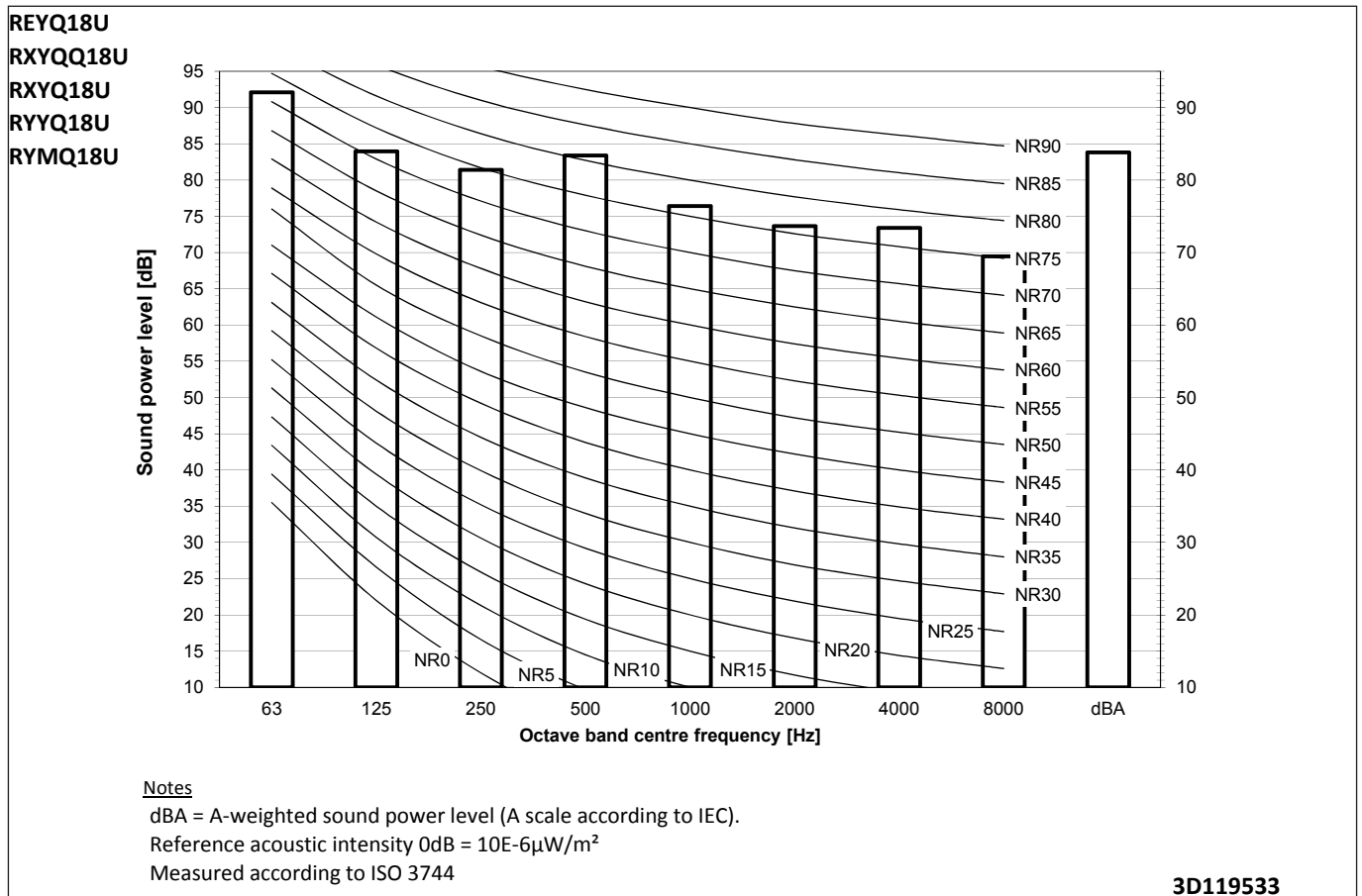
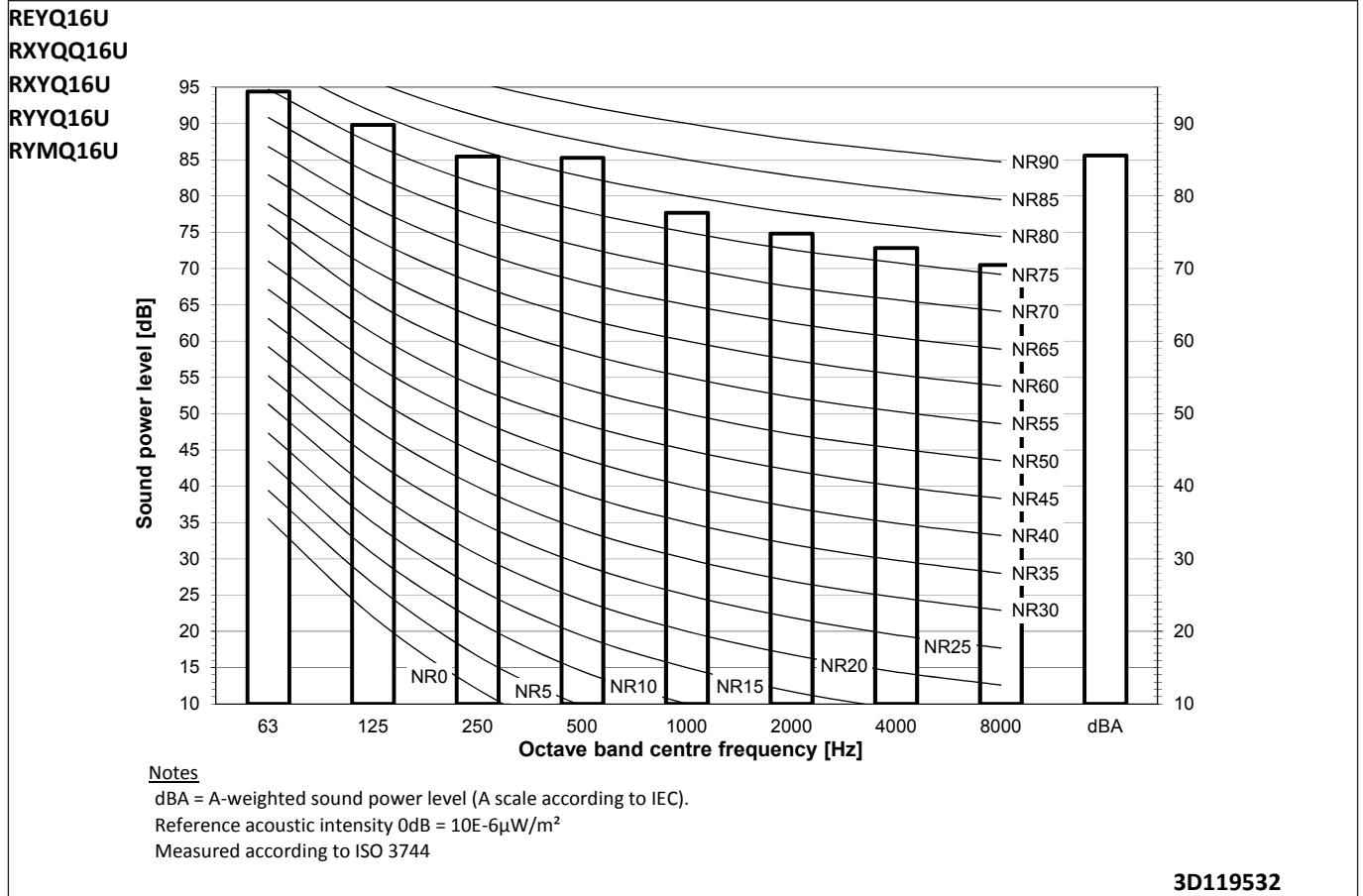
Reference acoustic intensity 0dB = $10E-6\mu W/m^2$

Measured according to ISO 3744

3D119531

11 Sound data

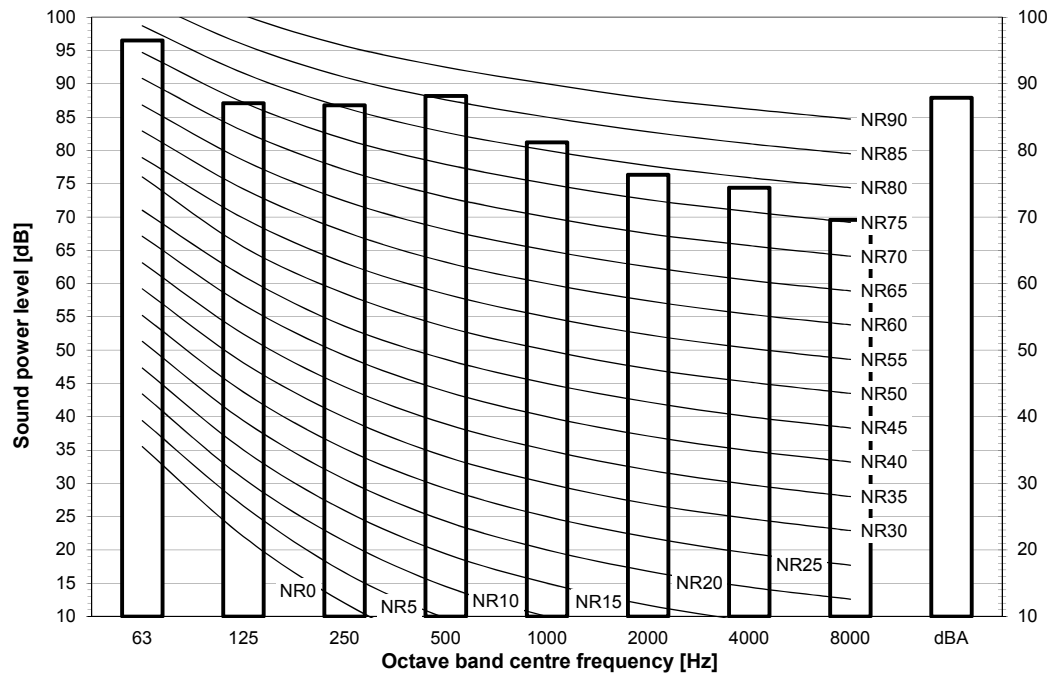
11 - 1 Sound Power Spectrum



11 Sound data

11 - 1 Sound Power Spectrum

REYQ20U
RXYQQ20U
RXYQ20U
RYYQ20U
RYMQ20U



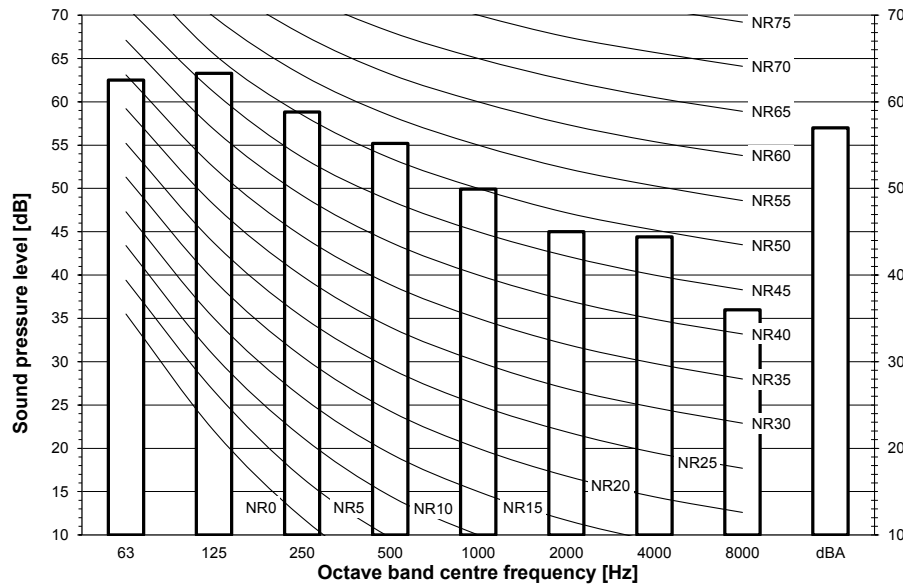
Notes
dBA = A-weighted sound power level (A scale according to IEC).
Reference acoustic intensity 0dB = $10^{-6} \mu\text{W}/\text{m}^2$
Measured according to ISO 3744

3D119534

11 Sound data

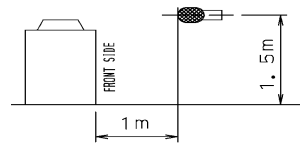
11 - 2 Sound Pressure Spectrum

REMQ5U
REYQ8U
RXYQQ8U
RXYQ8U
RXYTQ8UYF
RYYQ8U
RYMQ8U



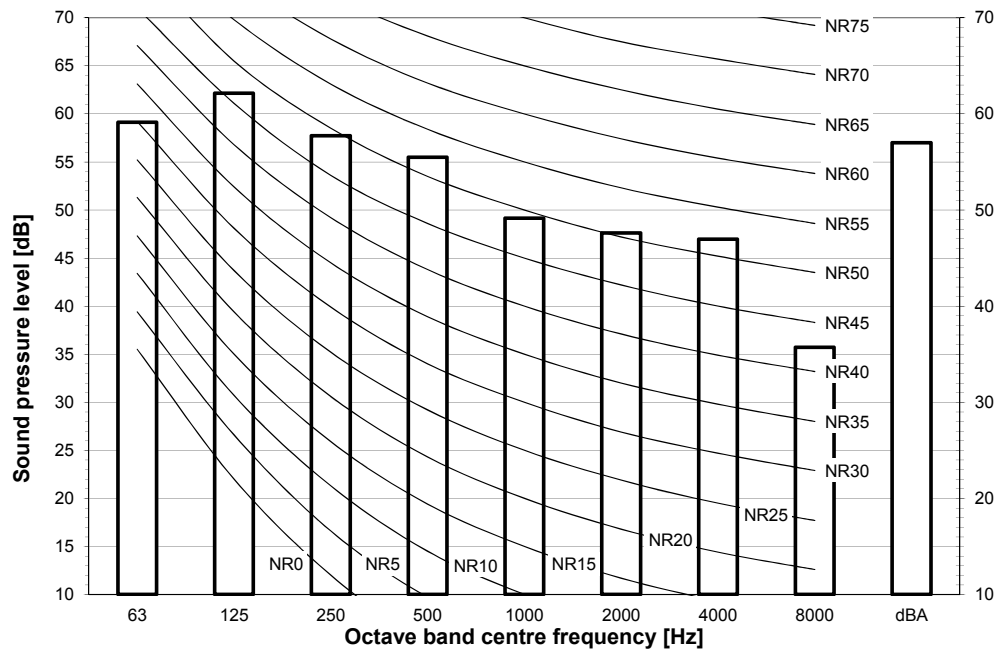
Notes

Data is valid at free field condition.
Data is valid at nominal operation condition.
dBA = A-weighted sound pressure level (A scale according to IEC).
Reference acoustic pressure 0 dB = 20 μ Pa



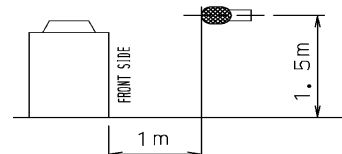
3D119521

REYQ10U
RXYQQ10U
RXYQ10U
RYYQ10U
RYMQ10U



Notes

Data is valid at free field condition.
Data is valid at nominal operation condition.
dBA = A-weighted sound pressure level (A scale according to IEC).
Reference acoustic pressure 0 dB = 20 μ Pa



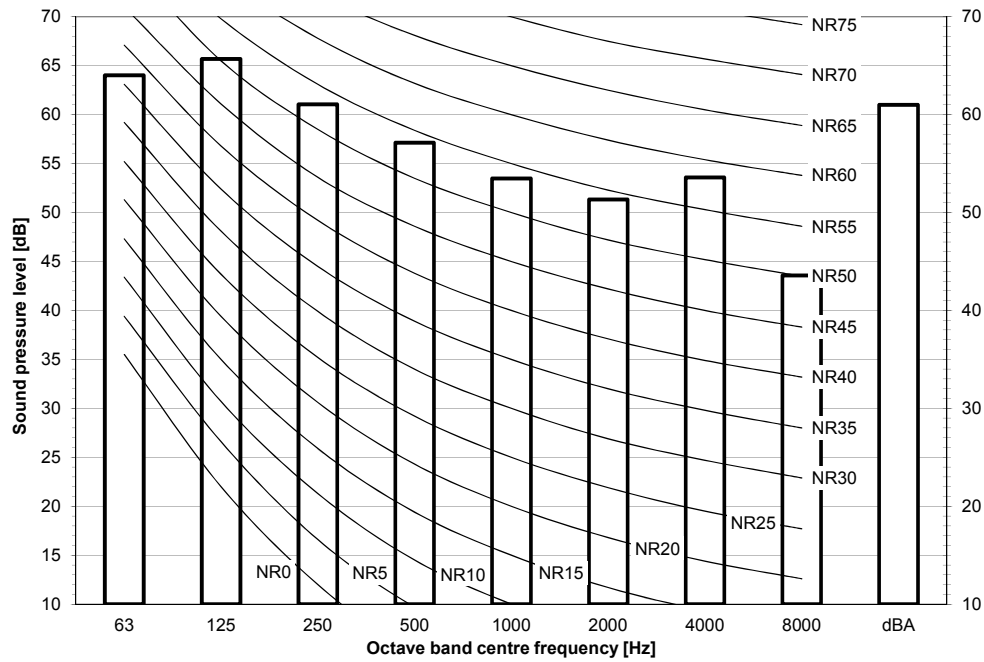
3D119522

11 Sound data

11 - 2 Sound Pressure Spectrum

11

REYQ12U
RXYQQ12U
RXYQ12U
RYYQ12U
RYMQ12U

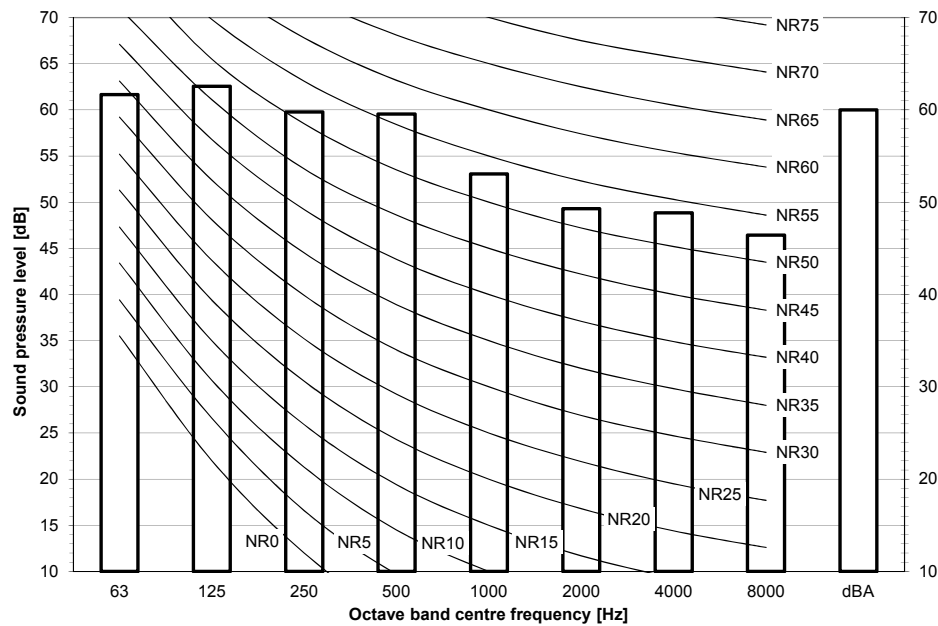


Notes

Data is valid at free field condition.
Data is valid at nominal operation condition.
dBA = A-weighted sound pressure level (A scale according to IEC).
Reference acoustic pressure 0 dB = 20 µPa

3D119523

REYQ14U
RXYQQ14U
RXYQ14U
RYYQ14U
RYMQ14U



Notes

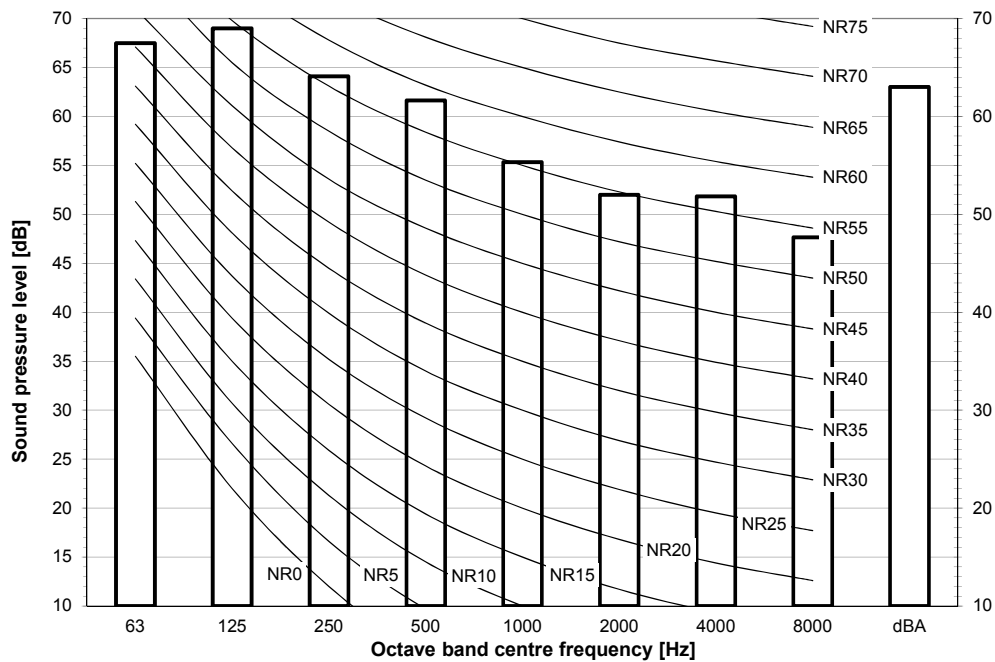
Data is valid at free field condition.
Data is valid at nominal operation condition.
dBA = A-weighted sound pressure level (A scale according to IEC).
Reference acoustic pressure 0 dB = 20 µPa

3D119524

11 Sound data

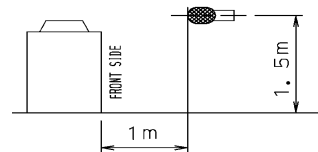
11 - 2 Sound Pressure Spectrum

REYQ16U
RXYQQ16U
RXYQ16U
RYYQ16U
RYMQ16U



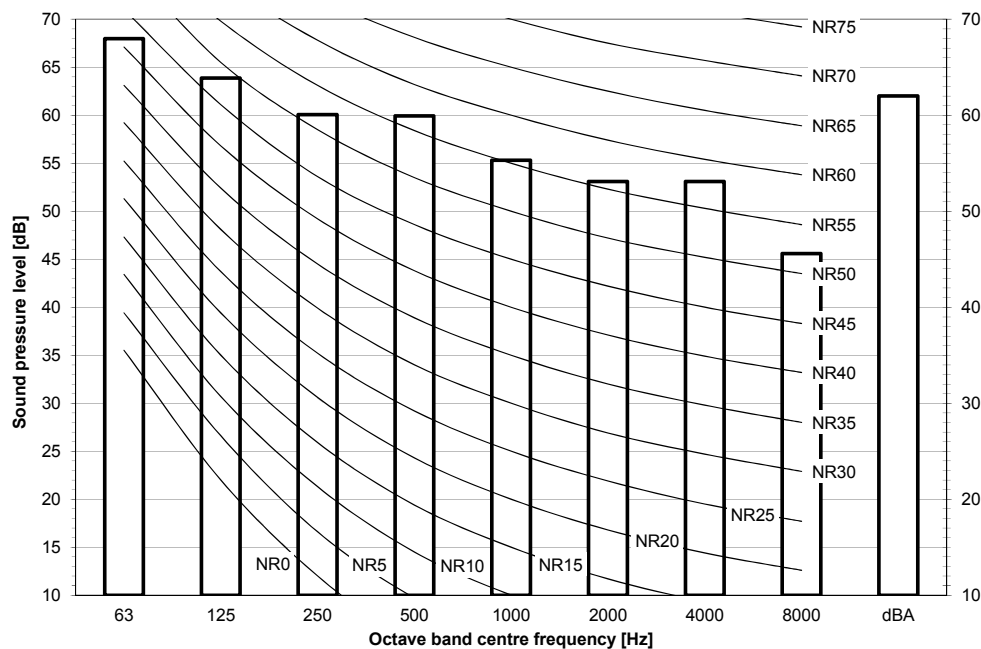
Notes

Data is valid at free field condition.
Data is valid at nominal operation condition.
dBA = A-weighted sound pressure level (A scale according to IEC).
Reference acoustic pressure 0 dB = 20 μ Pa



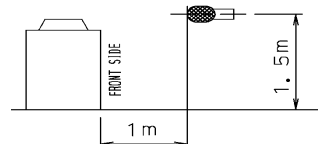
3D119525

REYQ18U
RXYQQ18U
RXYQ18U
RYYQ18U
RYMQ18U



Notes

Data is valid at free field condition.
Data is valid at nominal operation condition.
dBA = A-weighted sound pressure level (A scale according to IEC).
Reference acoustic pressure 0 dB = 20 μ Pa

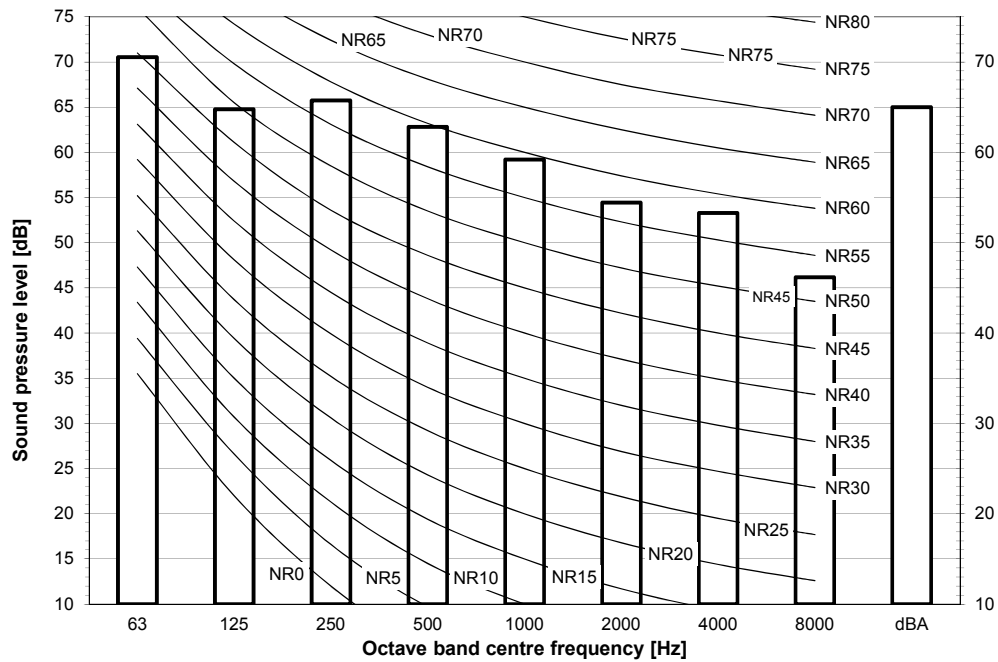


3D119526

11 Sound data

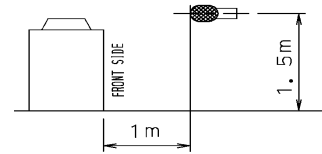
11 - 2 Sound Pressure Spectrum

REYQ20U
RXYQQ20U
RXYQ20U
RYYQ20U
RYMQ20U



Notes

Data is valid at free field condition.
Data is valid at nominal operation condition.
dBA = A-weighted sound pressure level (A scale according to IEC).
Reference acoustic pressure 0 dB = 20 µPa



3D119527

11 Sound data

11 - 3 Sound Pressure Spectrum Quiet Mode Level 1

REMQ5U

REYQ8-12U

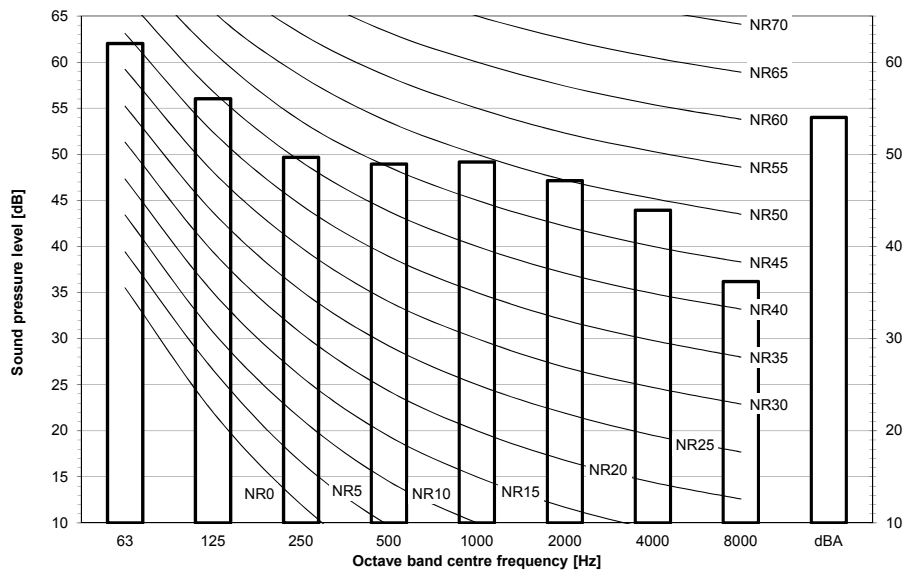
RXYQQ8-12U

RXYQ8-12U

RXYTQ8UYF

RYY8-12U

RYMQ8-12U



Notes

Data is valid at free field condition.

Data is valid at nominal operation condition.

dBA = A-weighted sound pressure level (A scale according to IEC).

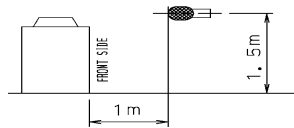
Reference acoustic pressure 0 dB = 20 μ Pa

Data is valid under the following conditions

Cooling operation

Outdoor Ta: 35°C

Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)



3D119535

REYQ14-16U

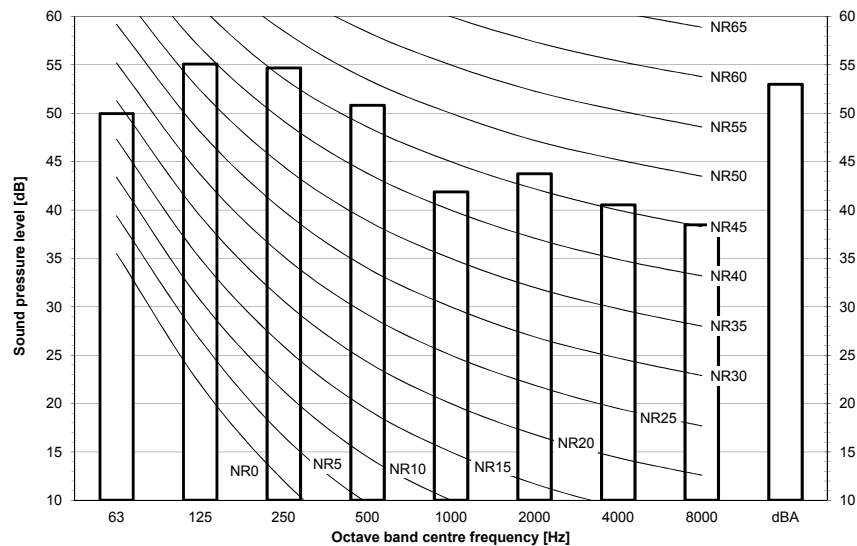
RXYQQ14-16U

RXYQ14-16U

RXYTQ14-16UYF

RYYQ14-16U

RYMQ14-16U



Notes

Data is valid at free field condition.

Data is valid at nominal operation condition.

dBA = A-weighted sound pressure level (A scale according to IEC).

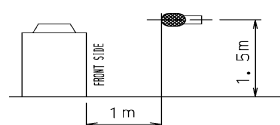
Reference acoustic pressure 0 dB = 20 μ Pa

Data is valid under the following conditions

Cooling operation

Outdoor Ta: 35°C

Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)

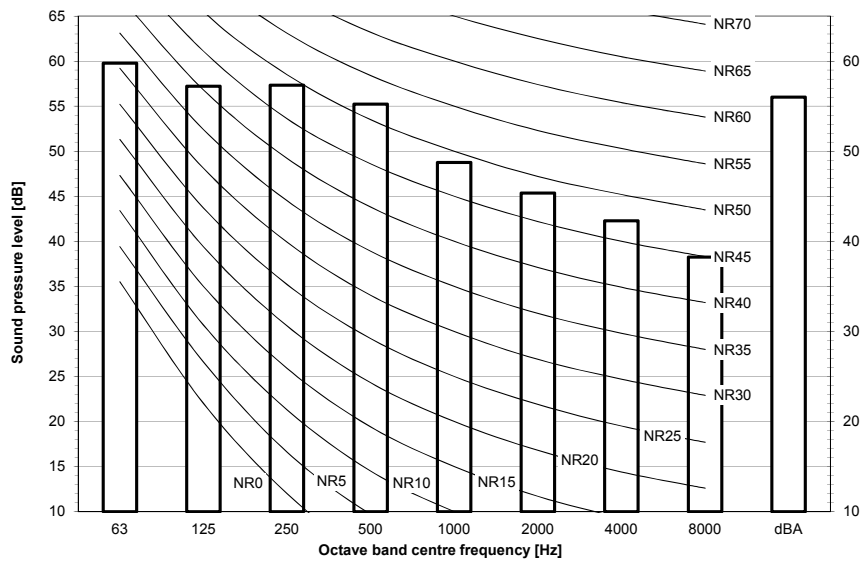


3D119538

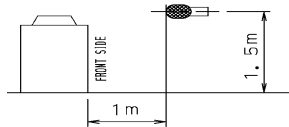
11 Sound data

11 - 3 Sound Pressure Spectrum Quiet Mode Level 1

REYQ18-20U
RXYQQ18-20U
RXYQ18-20U
RYYQ18-20U
RYMQ18-20U



Notes
Data is valid at free field condition.
Data is valid at nominal operation condition.
dBA = A-weighted sound pressure level (A scale according to IEC).
Reference acoustic pressure 0 dB = 20 µPa
Data is valid under the following conditions
Cooling operation
Outdoor Ta: 35°C
Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)

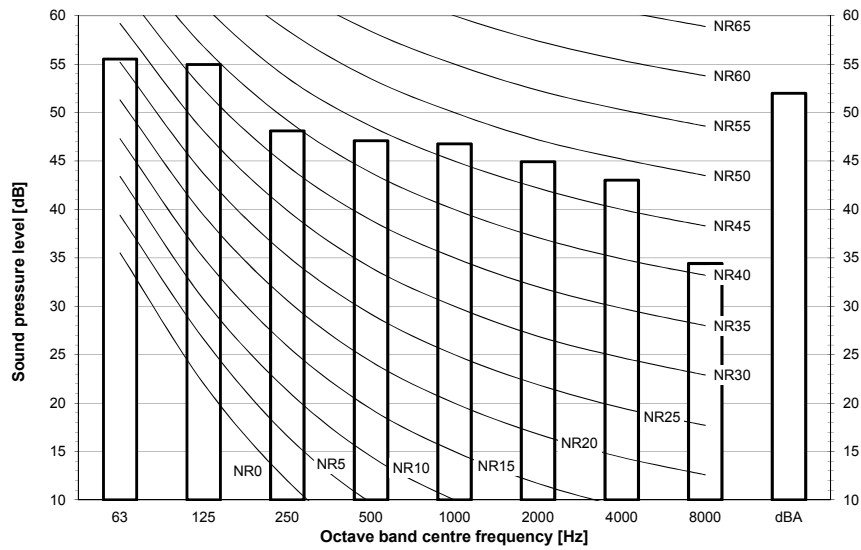


3D119541

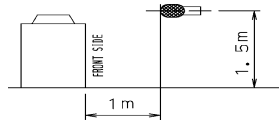
11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode Level 2

REMQ5U
REYQ8-12U
RXYQQ8-12U
RXYQ8-12U
RXYTQ8UYF
RYYQ8-12U
RYMQ8-12U

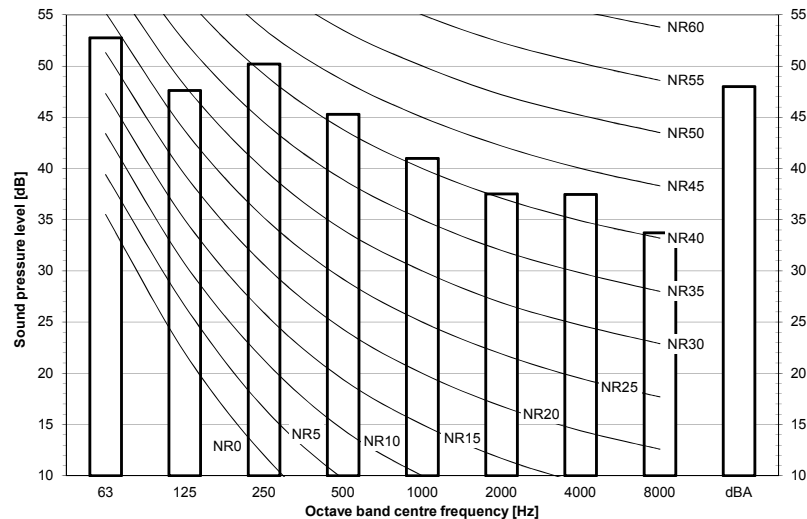


Notes
Data is valid at free field condition.
Data is valid at nominal operation condition.
dBA = A-weighted sound pressure level (A scale according to IEC).
Reference acoustic pressure 0 dB = 20 μ Pa
Data is valid under the following conditions
Cooling operation
Outdoor Ta: 35°C
Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)

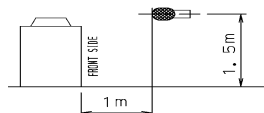


3D119536

REYQ14-16U
RXYQQ14-16U
RXYQ14-16U
RXYTQ14-16UYF
RYYQ14-16U
RYMQ14-16U



Notes
Data is valid at free field condition.
Data is valid at nominal operation condition.
dBA = A-weighted sound pressure level (A scale according to IEC).
Reference acoustic pressure 0 dB = 20 μ Pa
Data is valid under the following conditions
Cooling operation
Outdoor Ta: 35°C
Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)

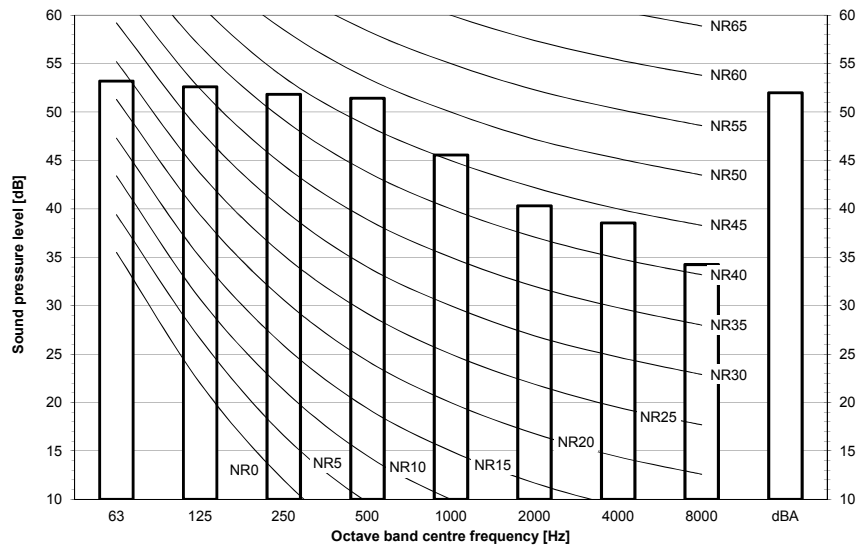


3D119539

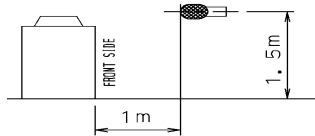
11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode Level 2

REYQ18-20U
RXYQQ18-20U
RXYQ18-20U
RYYQ18-20U
RYMQ18-20U



Notes
Data is valid at free field condition.
Data is valid at nominal operation condition.
dBA = A-weighted sound pressure level (A scale according to IEC).
Reference acoustic pressure 0 dB = 20 μ Pa
Data is valid under the following conditions
Cooling operation
Outdoor Ta: 35°C
Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)



3D119542

11 Sound data

11 - 5 Sound Pressure Spectrum Quiet Mode Level 3

REMQ5U

REYQ8-12U

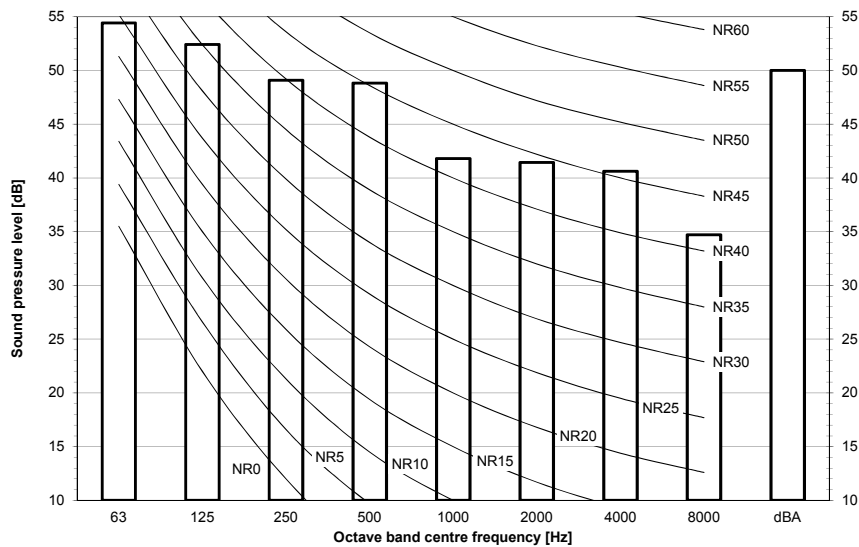
RXYQQ8-12U

RXYQ8-12U

RXYTQ8UYF

RYYQ8-12U

RYMQ8-12U



Notes

Data is valid at free field condition.

Data is valid at nominal operation condition.

dBA = A-weighted sound pressure level (A scale according to IEC).

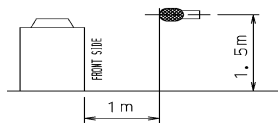
Reference acoustic pressure 0 dB = 20 μ Pa

Data is valid under the following conditions

Cooling operation

Outdoor Ta: 35°C

Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)



3D119537

REYQ14-16U

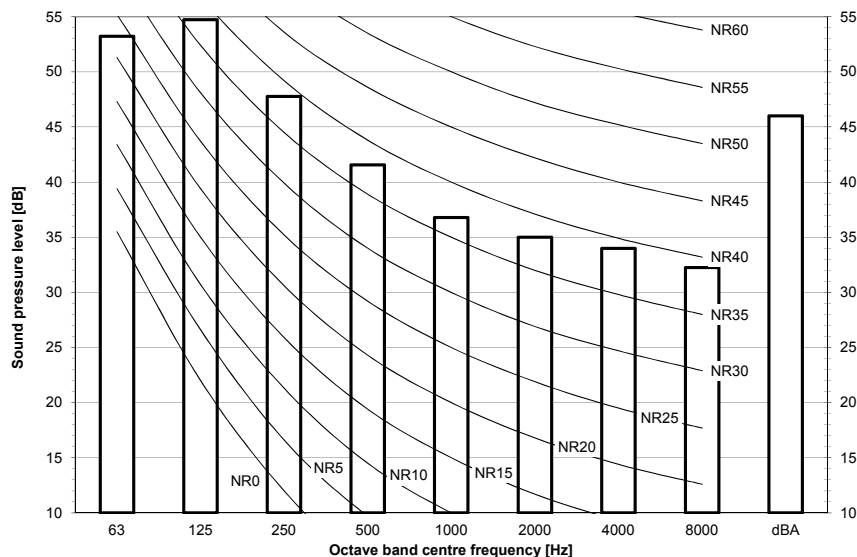
RXYQQ14-16U

RXYQ14U-16U

RXYTQ14-16UYF

RYYQ14-16U

RYMQ14-16U



Notes

Data is valid at free field condition.

Data is valid at nominal operation condition.

dBA = A-weighted sound pressure level (A scale according to IEC).

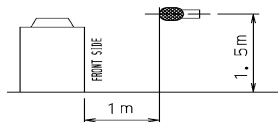
Reference acoustic pressure 0 dB = 20 μ Pa

Data is valid under the following conditions

Cooling operation

Outdoor Ta: 35°C

Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)

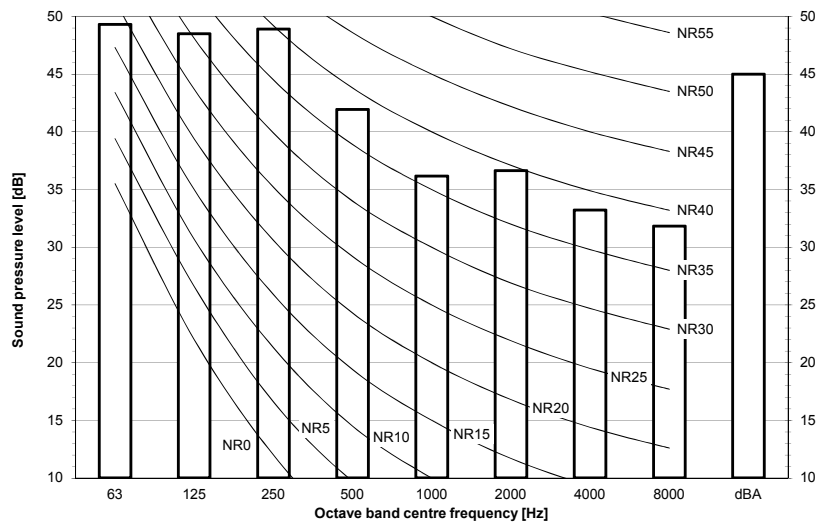


3D119540

11 Sound data

11 - 5 Sound Pressure Spectrum Quiet Mode Level 3

REYQ18-20U
RXYQQ18-20U
RXYQ18-20U
RYYQ18-20U
RYMQ18-20U



Notes

Data is valid at free field condition.

Data is valid at nominal operation condition.

dBA = A-weighted sound pressure level (A scale according to IEC).

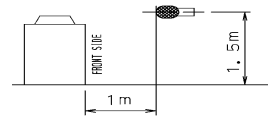
Reference acoustic pressure 0 dB = 20 μ Pa

Data is valid under the following conditions

Cooling operation

Outdoor Ta: 35°C

Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)



3D119543

12 Installation

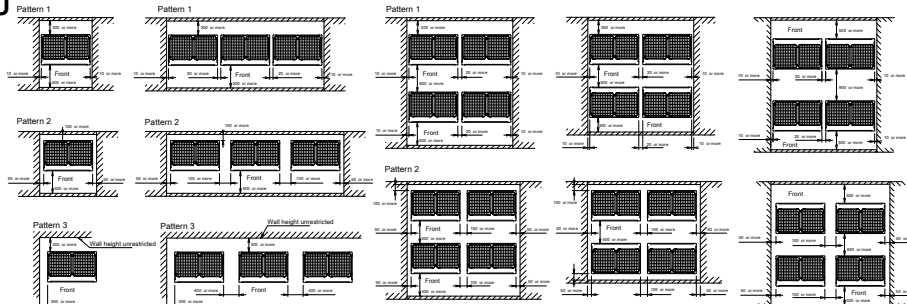
12 - 1 Installation Method

REMQ5U
REYQ8-20U
RXYQQ8-20U
RXYQ8-20U
RYYQ8-20U
RYMQ-20U

For single unit installation

For installation in rows

For centralised group layout



Notes

1. Height of the walls in case of patterns 1 and 2:

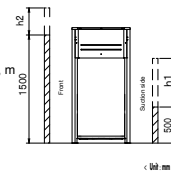
Front: 1500mm

Suction side: 500mm

Side: height unrestricted

The installation space shown on this drawing is based on cooling operation at 35°C (outdoor temperature).

When the design outdoor ambient temperature exceeds 35°C or the load exceeds maximum ability of much generation load of heat in all outdoor unit, make sure the suction-side space is broader than the space shown on this drawing.



2. If the walls are higher than mentioned above, then additional service space is needed:

- suction side: service space + h1/2

- front side: service space + h2/2

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

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

If more units are to be installed than are catered for in the above patterns, your layout should take into account of the possibility of short circuits.

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

3D118467

12 Installation

12 - 2 Fixation and Foundation of Units

12

REMQ5U

REYQ8-20U

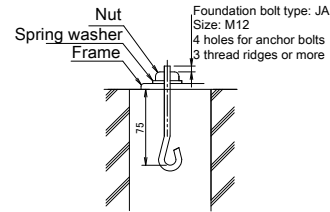
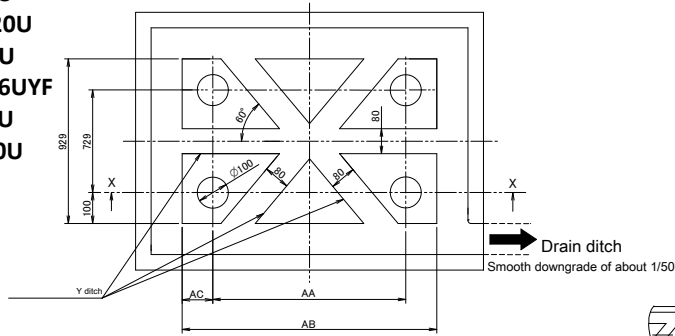
RXYQQ8-20U

RXYQ8-20U

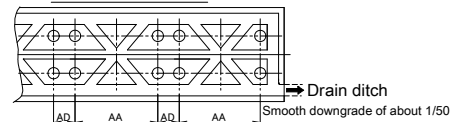
RXYTQ8-16UYF

RYYQ8-20U

RYMQ8-20U



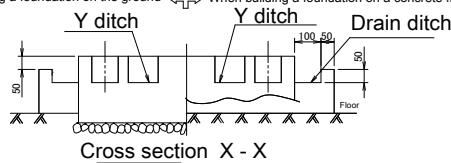
Foundation bolt fixing method



For multi-unit installation

Model	AA	AB	AC	AD
RYYQ8-12U	766	992	113	185
RYMQ8-12U				
RXYQ8-12U				
RXYQQ8-12U				
REMQ5T/REYQ8-12U	1076	1076	113	185
RXYTQ8U				
RYYQ14-20U				
RYMQ14-20U				
RXYQ14-20U				
RXYQQ14-20U				
REYQ14-20U				
RXYTQ10-16U				

When building a foundation on the ground ↔ When building a foundation on a concrete floor



Notes

1. Provide a drain ditch around the foundation to drain water from the installation area.
2. The surface has to be finished with mortar. The corner edges have to be chamfered.
3. Build the foundation on a concrete floor or, if not possible, make sure the foundation surface has a rough finish.
4. Use a cement/sand/gravel ratio of 1/2/4 for the concrete, and a diameter of 10 mm for the reinforcement bars (approximately, 300mm intervals).
5. When installing the equipment on a roof, make sure to check the strength of the floor and take adequate water proofing measures. **3D118459**

12 Installation

12 - 3 Refrigerant Pipe Selection

RXYQQ-U

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

Reference drawing see
Page 2/3

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

NOTES

For standard multi combinations; see 3D079534

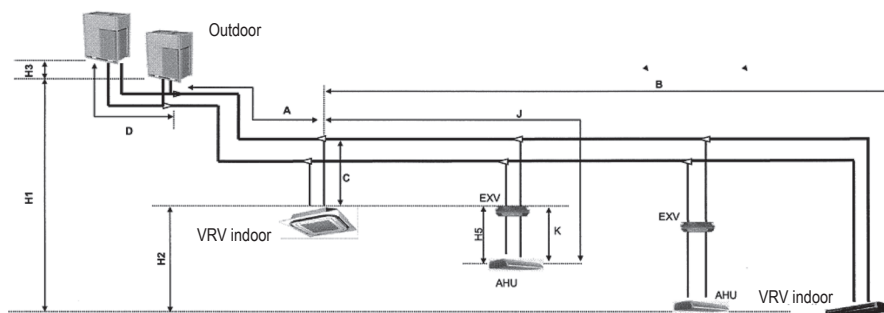
(1) Extension is possible if all below conditions are met (limitation can be extended up to 90m)

- The piping length between all indoor to the nearest branch kit is ≤ 40m.
 - It is necessary to increase the pipe size of the gas and liquid piping if the pipe length between the first and the final branch kit is over 40m
If the increased pipe size is larger than the pipe size of the main pipe, then the pipe size of the main pipe has to be increased as well
 - When the piping size is increased (b), the piping length has to be counted as double. The total piping length has to be within limitations (see table above).
 - The piping length difference between the nearest indoor from first branch to the outdoor unit and farthest indoor to the outdoor unit is ≤ 40m
- (2) The allowable minimum length is 5 m.

3D084965(1/3)

RXYQQ-U

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



NOTES

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

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

3D084965(2/3)

12 Installation

12 - 3 Refrigerant Pipe Selection

RXYQQ-U

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

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

NOTES

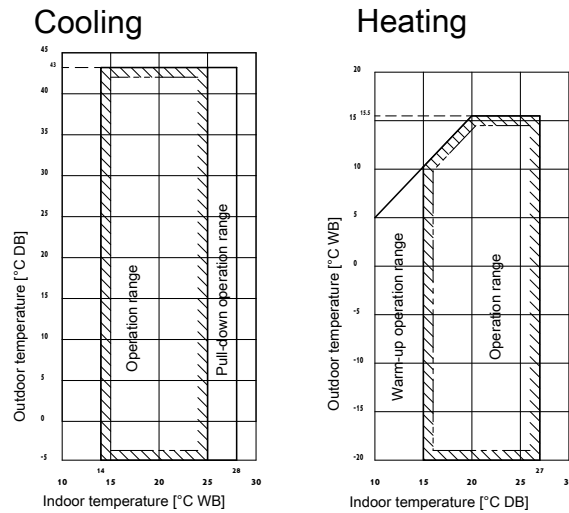
1. When using AHU connection: see EKEXV kit as an indoor unit for counting the total number of indoor units
2. Restrictions by air handling unit capacity
3. Pair AHU = system with 1 AHU connected to one outdoor unit

3D084965(3/3)

13 Operation range

13 - 1 Operation Range

RXYQQ-U
RXYQ-U
RYYQ-U
RYMQ-U



Notes

1. These figures assume the following operation conditions

Indoor and outdoor units

Equivalent piping length: 5m

Level difference: 0m

2. Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).

3. To reduce the freeze-up operation (indoor de-icing) frequency, it is recommended to install the outdoor unit in a location not exposed to wind.

4. Operation range is valid in case direct expansion indoor units are used.

3D118465

14 Appropriate Indoors

14 - 1 Appropriate Indoors

RXYQQ-U

Recommended indoor units for ·RXYQQ*U*· outdoor units

~ HP	8	10	12	14	16	18	20
	4xFXMQ50	4xFXMQ63	6xFXMQ50	1xFXMQ50 5xFXMQ63	4xFXMQ63 2xFXMQ80	3xFXMQ50 5xFXMQ63	2xFXMQ50 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 ·RXYQQ*U*· outdoor units

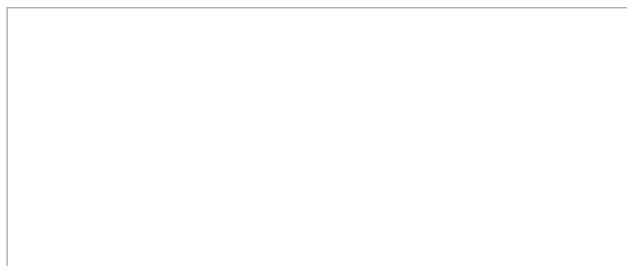
Covered by ·ENER LOT21·

FXFQ20-25-32-40-50-63-80-100-125
 FXZQ15-20-25-32-40-50
 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

Outside the scope of ·ENER LOT21·

EKEXV50-63-80-100-125-140-200-250-400-500 + EKEQM / EKEQF
 VKM50-80-100
 FXYBP20-25K7V19
 FXYSP20-25-32-40-50-63-80-100-125KA7V19
 FXYMP40-50-63-80-100-125-200-250KV1
 FXYCP20-25-32-40-50-63-80-125K7V19
 FXYFP20-25-32-40-50-63-80-100-125KB7V19
 FXYKP25-32-40-63KV1
 FXYHP32-63-100KVE9
 FXYLP20-25-32-40-50-63KV19
 FXYLMP20-25-32-40-50-63KV1
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