Air Conditioning
Technical Data

RYYQ-U

> RYYQ8U7Y1B
> RYYQ10U7Y1B
> RYYQ12U7Y1B
> RYYQ14U7Y1B
> RYYQ16U7Y1B
> RYYQ18U7Y1B
> RYYQ20U7Y1B

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RYYQ-U

1 Features

Daikin's optimum solution with top comfort

- Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains
- Wide range of indoor units: possibility to combine VRV with stylish indoor units (Daikin Emura, Nexura, ...)
- Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, continuous heating, VRV configurator, 7 segment display and full inverter compressors, 4-side heat exchanger, refrigerant cooled PCB, new DC fan motor
- Customize your VRV for best seasonal efficiency & comfort with the weather dependant Variable Refrigerant Temperature function. Increased seasonal efficiency with up to 28%. No more cold draft by supply of high outblow temperatures
- Continuous comfort: Unique continuous heating technology makes VRV IV the best alternative to traditional heating systems
- VRV configurator software for the fastest and most accurate commissioning, configuration and customisation
- Outdoor unit display for quick on-site settings and easy read out of errors together with the indication of service parameters for checking basic functions.
- Free combination of outdoor units to meet installation space or efficiency requirements
- Fits any building as also indoor installation is possible as a result of high external static pressure of up to 78.4 Pa. Indoor installation leads to less piping length, lower installation costs, increased efficiency and better visual aesthetics
- Simplified installation & guaranteed optimal efficiency with automatic charging & testing
- Easy compliance with F-gas regulation thanks to automated refrigerant containment check
- Wide piping flexibility: 30m indoor height difference, maximum piping length: 190m, total piping length: 1,000m
- The ability to control each conditioned zone individually keeps VRV system running costs to an absolute minimum
- Spread your installation cost by phased installation
- Keep your system in top condition via the Daikin Cloud Service: 24/7 monitoring for maximum efficiency, extented lifetime and immediate service support thanks to failure prediction
- Available as heating only by irreversible field setting

INVERTER

Inverter

2 Specifications

2-1 Technical Specifications					RYYQ8U	RYYQ10U	RYYQ12U	RYYQ14U	RYYQ16U	RYYQ18U	RYYQ20U
Continuous heating					Yes						
Recommended combination					4 x FXFQ50AVEB	4 x FXFQ63AVEB	6 x FXFQ50AVEB	1 x FXFQ50AVEB + 5 x FXFQ63AVEB	4 x FXFQ63AVEB + 2 x FXFQ80AVEB	3 x FXFQ50AVEB + 5 x FXFQ63AVEB	2 x FXFQ50AVEB + 6 x FXFQ63AVEB
Recommended combination 2					4 x FXSQ50A2VEB	4 x FXSQ63A2VEB	6 x FXSQ50A2VEB	1 x FXSQ50A2VEB + 5 x FXSQ63A2VEB	4 x FXSQ63A2VEB + 2 x FXSQ80A2VEB	3 x FXSQ50A2VEB + 5 x FXSQ63A2VEB	2 x FXSQ50A2VEB + 6 x FXSQ63A2VEB
Recommended combination 3					4 x FXMQ50P7VEB	4 x FXMQ63P7VEB	6 x FXMQ50P7VEB	1 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	3 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	2 x FXMQ50P7VEB + 6 x FXMQ63P7VEB
Cooling capacity	Prated,c			kW	22.4 (1)	28.0 (1)	33.5 (1)	40.0 (1)	45.0 (1)	50.4 (1)	52.0 (1)
Heating capacity	Prated,h			kW	13.7	16.0	18.4	20.6	23.2	27.9	31.0
	Max.	6°CWB		kW	25.0 (2)	31.5 (2)	37.5 (2)	45.0 (2)	50.0 (2)	56.5 (2)	63.0 (2)
SEER					7.6	6.8	6.3		6.0		5.9
SEER recommended combination 2					6.9	6.8	5.9	6.3	5.9	6.0	5.9
SEER recommended combination 3					7.5	6.8	6.2		5.8	6.0	5.9
SCOP					4.3		4.1	4.0		4.2	4.0
SCOP recommended combination 2					4.2	4.3	4.1	4.0	4.1	4.2	4.0
SCOP recommended combination 3					4.2	4.1		4.0		4.1	3.9
ηs,c				%	302.4	267.6	247.8	250.7	236.5	238.3	233.7
ηs,c recommended combination 2					273.6	270.5	233.5	250.0	234.2	236.8	233.9
ηs,c recommended combination 3					295.2	267.1	246.3	246.7	230.4	238.2	233.1
ηs,h				%	167.9	168.2	161.4	155.4	157.8	163.1	156.6
ηs,h recommended combination 2					165.4	170.6	161.3	157.2	159.5	164.8	158.2
ηs,h recommended combination 3					165.6	162.0	160.6	155.7	156.8	159.6	153.4
Capacity range				HP	8	10	12	14	16	18	20
Maximum number of connectable indoor units					64 (3)						
Indoor index connection	Min.				100.0	125.0	150.0	175.0	200.0	225.0	250.0
	Max.				260.0	325.0	390.0	455.0	520.0	585.0	650.0
Dimensions	Unit	Height		mm	1,685						
		Width		mm	930			1,240			
		Depth		mm	765						
	Packed unit	Height		mm	1,820						
		Width		mm	995			1,305			
		Depth		mm	860						
Weight	Unit			kg	252			319		378	
	Packed unit			kg	265			335		395	
Packing	Material				Carton						
	Weight			kg	1.8			2.2			
Packing 2	Material				Wood						
	Weight			kg	11.0			14.0			
Packing 3	Material				Plastic						
	Weight			kg	0.5			0.6			
Capacity control	Method				Inverter controlled						
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	15,600	15,060	15,660
		Heating	Rated	m³/h	9,720	10,500	11,100	13,380	15,600	15,060	15,660
Compressor	Quantity				1			2			
	Type				Hermetically sealed scroll compressor						
	Crankcase heater			W	33						

2 Specifications

2-1 Technical Specifications					RYYQ8U	RYYQ10U	RYYQ12U	RYYQ14U	RYYQ16U	RYYQ18U	RYYQ20U
Fan	Quantity				1			2			
	External static pressure	Max.		Pa	78						
Fan motor	Quantity				1			2			
	Type				DC motor						
	Output			W	550			750			
Sound power level	Cooling	Nom.		dBA	78.0 (4)	79.1 (4)	83.4 (4)	80.9 (4)	85.6 (4)	83.8 (4)	87.9 (4)
	Heating	Nom.		dBA	62.7 (4)	64.8 (4)	64.9 (4)	68.3 (4)	68.6 (4)	66.3 (4)	67.0 (4)
Sound pressure level	Cooling	Nom.		dBA	57.0 (5)		61.0 (5)	60.0 (5)	63.0 (5)	62.0 (5)	65.0 (5)
Operation range	Cooling	Min.~Max.		°CDB	-5.0~43.0						
	Heating	Min.~Max.		°CWB	-20.0~15.5						
Refrigerant	Type				R-410A						
	GWP				2,087.5						
	Charge			TCO_2eq	12.3	12.5	13.2	21.5	21.7	24.4	24.6
				kg	5.9	6.0	6.3	10.3	10.4	11.7	11.8
Refrigerant oil	Type				Synthetic (ether) oil FVC68D						
Piping connections	Liquid	Type			Braze connection						
		OD		mm	9,52		12,7			15,9	
	Gas	Type			Braze connection						
		OD		mm	19.1	22.2	28.6				
	Total piping length	System	Actual	m	1,000 (6)						
Defrost method					Reversed cycle						
Safety devices	Item	01			High pressure switch						
		02			Fan driver overload protector						
		03			Inverter overload protector						
		04			PC board fuse						
		05			Leakage current detector						
PED	Category				Category II						
	Most critical part	Name			Accumulator						
		Ps*V		Bar*l	325			415		493	
Space cooling	A Condition (35°C - 27/19)	EERd			3.0	2.3	2.4	2.6	2.1	1.9	
		Pdc		kW	22.4	28.0	33.5	40.0	45.0	50.4	52.0
	B Condition (30°C - 27/19)	EERd			5.2	4.7	4.3	4.1	3.9	3.8	3.7
		Pdc		kW	16.5	20.6	24.7	29.5	33.2	37.1	38.3
	C Condition (25°C - 27/19)	EERd			9.5	8.3	7.7	7.8	7.7	7.5	7.3
		Pdc		kW	10.6	13.3	15.9	18.9	21.3	23.9	24.6
	D Condition (20°C - 27/19)	EERd			18.8	17.0	13.9	14.3	14.2	18.3	
		Pdc		kW	8.0	9.3	9.4	8.4	9.5	11.5	
Space cooling recommended combination 2	A Condition (35°C - 27/19)	EERd			2.6	2.4		2.6	2.1	1.9	
		Pdc		kW	22.4	28.0	33.5	40.0	45.0	50.4	52.0
	B Condition (30°C - 27/19)	EERd			4.9	4.7	4.0	4.1	3.8	3.7	3.6
		Pdc		kW	16.5	20.6	24.7	29.5	33.2	37.1	38.3
	C Condition (25°C - 27/19)	EERd			8.8	8.5	7.1	7.9	7.6	7.5	7.3
		Pdc		kW	10.6	13.3	15.9	18.9	21.3	23.9	24.6
	D Condition (20°C - 27/19)	EERd			15.1	17.2	13.1	14.0		18.1	18.9
		Pdc		kW	8.8	9.3	9.1	8.4	9.5	11.4	10.9
Space cooling recommended combination 3	A Condition (35°C - 27/19)	EERd			3.0	2.3	2.4	2.6	2.1	1.9	
		Pdc		kW	22.4	28.0	33.5	40.0	45.0	50.4	52.0
	B Condition (30°C - 27/19)	EERd			5.1	4.7	4.2	4.0	3.7		3.6
		Pdc		kW	16.5	20.6	24.7	29.5	33.2	37.1	38.3
	C Condition (25°C - 27/19)	EERd			9.6	8.4	7.7		7.4	7.6	7.3
		Pdc		kW	10.6	13.3	15.9	19.0	21.3	23.9	24.6
	D Condition (20°C - 27/19)	EERd			16.0	16.9	13.7	14.0	14.1	18.3	
		Pdc		kW	9.1	9.3	9.4	8.4	9.5	11.6	

2 Specifications

2-1 Technical Specifications				RYYQ8U	RYYQ10U	RYYQ12U	RYYQ14U	RYYQ16U	RYYQ18U	RYYQ20U
Space heating (Average climate)	TBivalent	COPd (declared COP)		2.5	2.4	2.0	2.3	2.2	1.9	1.8
		Pdh (declared heating cap)	kW	13.7	16.0	18.4	20.6	23.2	27.9	31.0
		Tbiv (bivalent temperature)	°C	-10						
	TOL	COPd (declared COP)		2.5	2.4	2.0	2.3	2.2	1.9	1.8
		Pdh (declared heating cap)	kW	13.7	16.0	18.4	20.6	23.2	27.9	31.0
		Tol (temperature operating limit)	°C	-10						
	A Condition (-7°C)	COPd (declared COP)		2.7	2.6	2.4	2.6		2.4	2.1
		Pdh (declared heating cap)	kW	12.1	14.2	16.3	18.2	20.5	24.7	27.4
	B Condition (2°C)	COPd (declared COP)		3.9			3.5		3.7	3.6
		Pdh (declared heating cap)	kW	7.4	8.6	9.9	11.1	12.5	15.0	16.7
	C Condition (7°C)	COPd (declared COP)		6.3	6.4	6.1		6.3	6.7	6.5
		Pdh (declared heating cap)	kW	5.0	5.5	6.4	7.1	8.0	9.7	10.7
	D Condition (12°C)	COPd (declared COP)		7.9	8.2	7.9	8.5	8.6	9.0	9.1
		Pdh (declared heating cap)	kW	5.9		6.3	4.9		7.1	
Space heating (Average climate) recommended combination 2	A Condition (-7°C)	COPd (declared COP)		2.7		2.4	2.6		2.4	2.2
		Pdh (declared heating cap)	kW	12.1	14.2	16.3	18.2	20.5	24.7	27.4
	B Condition (2°C)	COPd (declared COP)		3.9	4.0	3.9	3.5		3.8	3.7
		Pdh (declared heating cap)	kW	7.4	8.6	9.9	11.1	12.2	15.0	16.7
	C Condition (7°C)	COPd (declared COP)		6.3	6.5	6.1		6.3	6.8	6.5
		Pdh (declared heating cap)	kW	5.0	5.5	6.4	7.1	8.0	9.7	10.7
	D Condition (12°C)	COPd (declared COP)		7.8	8.3	7.9	8.6	8.7	9.1	9.2
		Pdh (declared heating cap)	kW	5.9	6.0	6.4	4.9	5.0	7.2	
	TBivalent	COPd (declared COP)		2.4		1.9	2.3	2.2	1.9	1.8
		Pdh (declared heating cap)	kW	13.7	16.0	18.4	20.6	23.2	27.9	31.0
		Tbiv (bivalent temperature)	°C	-10						
	TOL	COPd (declared COP)		2.4		1.9	2.3	2.2	1.9	1.8
		Pdh (declared heating cap)	kW	13.7	16.0	18.4	20.6	23.2	27.9	31.0
		Tol (temperature operating limit)	°C	-10						

2 Specifications

2-1 Technical Specifications					RYYQ8U	RYYQ10U	RYYQ12U	RYYQ14U	RYYQ16U	RYYQ18U	RYYQ20U
Space heating (Average climate) recommended combination 3	A Condition (-7°C)	COPd (declared COP)			2.7	2.6	2.4	2.6		2.4	2.1
		Pdh (declared heating cap)		kW	12.1	14.2	16.3	18.2	20.5	24.7	27.4
	B Condition (2°C)	COPd (declared COP)			3.9	3.7	3.9	3.5		3.7	3.6
		Pdh (declared heating cap)		kW	7.4	8.6	9.9	11.1	12.5	15.0	16.7
	C Condition (7°C)	COPd (declared COP)			6.2	6.4	6.0	6.1	6.2	6.5	6.3
		Pdh (declared heating cap)		kW	4.9	5.5	6.4	7.1	8.0	9.7	10.7
	D Condition (12°C)	COPd (declared COP)			7.8	8.1	7.8	8.5	8.6	8.7	
		Pdh (declared heating cap)		kW	5.8	5.9	6.2	4.9		6.9	
	TBivalent	COPd (declared COP)			2.5	2.4	2.0	2.3	2.2	1.9	1.8
		Pdh (declared heating cap)		kW	13.7	16.0	18.4	20.6	23.2	27.9	31.0
		Tbiv (bivalent temperature)		°C	-10						
	TOL	COPd (declared COP)			2.5	2.4	2.0	2.3	2.2	1.9	1.8
		Pdh (declared heating cap)		kW	13.7	16.0	18.4	20.6	23.2	27.9	31.0
		Tol (temperature operating limit)		°C	-10						
Cooling	Cdc (Degradation cooling)				0.25						
Heating	Cdh (Degradation heating)				0.25						
Power consumption in other than active mode	Crankcase heater mode	Cooling	PCK	kW	0.000						
		Heating	PCK	kW	0.052			0.077		0.089	
	Off mode	Cooling	POFF	kW	0.041			0.074		0.075	
		Heating	POFF	kW	0.052			0.077		0.089	
	Standby mode	Cooling	PSB	kW	0.041			0.074		0.075	
		Heating	PSB	kW	0.052			0.077		0.089	
	Thermostat-off mode	Cooling	PTO	kW	0.005			0.010			
		Heating	PTO	kW	0.056			0.097		0.098	
Indication if the heater is equipped with a supplementary heater					no						
Supplementary heater	Back-up capacity	Heating	elbu	kW	0.0						

Standard Accessories : Installation manual; Quantity : 1;

Standard Accessories : Operation manual; Quantity : 1;

Standard Accessories : Connection pipes; Quantity : 1;

2-2 Electrical Specifications				RYYQ8U	RYYQ10U	RYYQ12U	RYYQ14U	RYYQ16U	RYYQ18U	RYYQ20U
Power supply	Name			Y1						
	Phase			3N~						
	Frequency		Hz	50						
	Voltage		V	380-415						
Voltage range	Min.		%	-10						
	Max.		%	10						
Current	Nominal running current (RLA) - 50Hz	Cooling	A	7.2 (7)	10.2 (7)	12.7 (7)	15.4 (7)	18.0 (7)	20.8 (7)	26.9 (7)
Current - 50Hz	Starting current (MSC) - remark			(8)						
	Zmax	List		No requirements						
	Minimum circuit amps (MCA)		A	16.1 (9)	22.0 (9)	24.0 (9)	27.0 (9)	31.0 (9)	35.0 (9)	39.0 (9)
	Maximum fuse amps (MFA)		A	20 (10)	25 (10)	32 (10)		40 (10)		50 (10)
	Full load amps (FLA)	Total	A	1.2 (11)	1.3 (11)	1.5 (11)	1.8 (11)	2.6 (11)		
Wiring connections - 50Hz	For power supply	Quantity		5G						
	For connection with indoor	Quantity		2						
		Remark		F1,F2						
Power supply intake				Both indoor and outdoor unit						

2 Specifications

Notes

(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. VRV IV uses only inverter compressors. Starting current is always ≤ max. running current.

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

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

(11) FLA means the nominal running current of the fan

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 wih Ssc ≥ minimum Ssc value

Maximum allowable voltage range variation between phases is 2%.

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

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

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

Sound values are measured in a semi-anechoic room.

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

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

Ssc: Short-circuit power

For detailed contents of standard accessories, see installation/operation manual

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

2-3 Technical Specifications		RYYQ22U	RYYQ24U	RYYQ26U	RYYQ28U	RYYQ30U	RYYQ32U	RYYQ34U	RYYQ36U	RYYQ38U
System	Outdoor unit module 1	RYMQ10U	RYMQ8U	RYMQ12U			RYMQ16U			RYMQ8U
	Outdoor unit module 2	RYMQ12U	RYMQ16U	RYMQ14U	RYMQ16U	RYMQ18U	RYMQ16U	RYMQ18U	RYMQ20U	RYMQ10U
	Outdoor unit module 3	-								RYMQ20U
Continuous heating		Yes								
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	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	6 x FXFQ50AVEB + 10 x FXFQ63AVEB
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	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	6 x FXSQ50A2VEB + 10 x FXSQ63A2VEB

2 Specifications

2-3 Technical Specifications					RYYQ22U	RYYQ24U	RYYQ26U	RYYQ28U	RYYQ30U	RYYQ32U	RYYQ34U	RYYQ36U	RYYQ38U
Recommended combination 3					6 x FXMQ50 P7VEB + 4 x FXMQ63 P7VEB	4 x FXMQ50 P7VEB + 4 x FXMQ63 P7VEB + 2 x FXMQ80 P7VEB	7 x FXMQ50 P7VEB + 5 x FXMQ63 P7VEB	6 x FXMQ50 P7VEB + 4 x FXMQ63 P7VEB + 2 x FXMQ80 P7VEB	9 x FXMQ50 P7VEB + 5 x FXMQ63 P7VEB	8 x FXMQ63 P7VEB + 4 x FXMQ80 P7VEB	3 x FXMQ50 P7VEB + 9 x FXMQ63 P7VEB + 2 x FXMQ80 P7VEB	2 x FXMQ50 P7VEB + 10 x FXMQ63 P7VEB + 2 x FXMQ80 P7VEB	6 x FXMQ50 P7VEB + 10 x FXMQ63 P7VEB
Cooling capacity	Prated,c			kW	61.5 (1)	67.4 (1)	73.5 (1)	78.5 (1)	83.9 (1)	90.0 (1)	95.4 (1)	97.0 (1)	102.4 (1)
Heating capacity	Prated,h			kW	34.4	36.9	39.0	41.6	46.3	46.4	51.1	54.2	60.7
	Max.	6°CWB		kW	69.0 (2)	75.0 (2)	82.5 (2)	87.5 (2)	94.0 (2)	100.0 (2)	106.5 (2)	113.0 (2)	119.5 (2)
SEER					6.9	6.8	6.7	6.5		6.4		6.3	6.9
SEER recommended combination 2					6.7	6.6	6.5	6.3					6.8
SEER recommended combination 3					6.9	6.7	6.6	6.4	6.5	6.2	6.3		6.9
SCOP					4.4	4.3	4.2		4.3	4.2		4.1	4.3
SCOP recommended combination 2					4.4	4.3	4.2		4.3	4.2	4.3	4.2	4.3
SCOP recommended combination 3					4.3	4.2			4.3	4.1	4.2	4.1	4.2
ηs,c				%	274.5	269.9	264.2	257.8	256.8	251.7	253.3	250.8	272.4
ηs,c recommended combination 2					266.5	262.6	256.1	249.3	249.8	248.3	250.9	248.7	269.2
ηs,c recommended combination 3					273.3	265.3	261.1	253.1	256.1	244.2	249.8	247.2	272.2
ηs,h				%	171.2	167.0	164.6	166.0	169.8	163.1	166.2	162.4	167.5
ηs,h recommended combination 2					172.3	167.1	165.4	166.8	170.6	164.6	167.7	164.1	168.4
ηs,h recommended combination 3					170.2	165.5	164.5	165.0	167.0	161.9	164.2	159.9	164.8
Capacity range				HP	22	24	26	28	30	32	34	36	38
Maximum number of connectable indoor units					64 (3)								
Indoor index connection	Min.				275.0	300.0	325.0	350.0	375.0	400.0	425.0	450.0	475.0
	Max.				715.0	780.0	845.0	910.0	975.0	1,040.0	1,105.0	1,170.0	1,235.0
Heat exchanger	Indoor side				Air								
	Outdoor side				Air								
	Air flow rate	Cooling	Rated	m^3/h	21,600	25,320	24,480	26,700	26,160	31,200	30,660	31,260	35,880
		Heating	Rated	m^3/h	21,600	25,320	24,480	26,700	26,160	31,200	30,660	31,260	35,880
Sound power level	Cooling	Nom.		dBA	84.8 (4)	86.3 (4)	85.3 (4)	87.6 (4)	86.6 (4)	88.6 (4)	87.8 (4)	89.9 (4)	88.8 (4)
	Heating	Nom.		dBA	67.8 (4)	69.6 (4)	69.9 (4)	70.1 (4)	68.7 (4)	71.6 (4)	70.6 (4)	70.9 (4)	69.9 (4)
Sound pressure level	Cooling	Nom.		dBA	62.5 (5)	64.0 (5)	63.5 (5)	65.1 (5)	64.5 (5)	66.0 (5)	65.5 (5)	67.1 (5)	66.2 (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						41.3	
	Total piping length	System	Actual	m	1,000 (6)								
PED	Category				Category II								
Space cooling	A Condition (35°C - 27/19)	EERd			2.6	2.5	2.6	2.3	2.1	2.3	2.1		2.4
		Pdc		kW	61.5	67.4	73.5	78.5	83.9	90.0	95.4	97.0	102.4
	B Condition (30°C - 27/19)	EERd			4.8	4.6		4.4	4.3		4.2	4.1	4.5
		Pdc		kW	45.3	49.7	54.2	57.8	61.8	66.3	70.3	71.5	75.5
	C Condition (25°C - 27/19)	EERd			8.5	8.6	8.2	8.1	8.2	8.1		7.9	8.5
		Pdc		kW	29.1	31.9	34.8	37.2	39.7	42.6	45.2	45.9	48.5
	D Condition (20°C - 27/19)	EERd			16.0	15.2	14.2	14.3	16.8	14.3	16.8	16.7	17.9
		Pdc		kW	18.8	15.8	16.2	16.5	21.0	19.0	20.1	20.4	21.6
Space cooling recommended combination 2	A Condition (35°C - 27/19)	EERd			2.6	2.4	2.6	2.3	2.1	2.2	2.1		2.3
		Pdc		kW	61.5	67.4	73.5	78.5	83.9	90.0	95.4	97.0	102.4
	B Condition (30°C - 27/19)	EERd			4.6	4.5	4.4	4.3	4.2			4.1	4.5
		Pdc		kW	45.3	49.7	54.1	57.8	61.8	66.3	70.3	71.5	75.4
	C Condition (25°C - 27/19)	EERd			8.2	8.4	7.9	7.8	7.9	8.0	8.1	7.9	8.4
		Pdc		kW	29.1	31.9	34.8	37.2	39.7	42.6	45.2	45.9	48.5
	D Condition (20°C - 27/19)	EERd			15.6	14.7	13.6	13.8	16.1	14.0	16.5		17.8
		Pdc		kW	18.4	15.4	15.7	16.5	20.5	18.9	20.1	20.4	21.6

2 Specifications

2-3 Technical Specifications				RYYQ22U	RYYQ24U	RYYQ26U	RYYQ28U	RYYQ30U	RYYQ32U	RYYQ34U	RYYQ36U	RYYQ38U
Space cooling recommended combination 3	A Condition (35°C - 27/19)	EERd		2.5			2.3	2.1	2.2	2.1		2.4
		Pdc	kW	61.5	67.4	73.5	78.5	83.9	90.0	95.4	97.0	102.4
	B Condition (30°C - 27/19)	EERd		4.8	4.5		4.3		4.1		4.0	4.5
		Pdc	kW	45.3	49.7	54.2	57.8	61.8	66.3	70.3	71.5	75.5
	C Condition (25°C - 27/19)	EERd		8.5	8.4	8.1	8.0	8.2	7.8	8.0	7.8	8.5
		Pdc	kW	29.1	31.9	34.8	37.2	39.7	42.6	45.2	45.9	48.5
	D Condition (20°C - 27/19)	EERd		15.8	15.2	14.0	14.1	16.6	13.8	16.6	16.5	17.9
		Pdc	kW	18.8	15.7	16.0	16.6	21.0	19.0	20.1	20.4	21.6
Space heating (Average climate)	TBivalent	COPd (declared COP)		2.3	2.5	2.3	2.2	2.1	2.4	2.2	2.1	2.2
		Pdh (declared heating cap)	kW	34.4	36.9	39.0	41.6	46.3	46.4	51.1	54.2	60.7
		Tbiv (bivalent temperature)	°C	-10								
	TOL	COPd (declared COP)		2.3	2.5	2.3	2.2	2.1	2.4	2.2	2.1	2.2
		Pdh (declared heating cap)	kW	34.4	36.9	39.0	41.6	46.3	46.4	51.1	54.2	60.7
		Tol (temperature operating limit)	°C	-10								
	A Condition (-7°C)	COPd (declared COP)		2.6	2.8	2.6			2.7	2.6	2.5	
		Pdh (declared heating cap)	kW	30.4	32.6	34.5	36.8	41.0		45.2	47.9	53.7
	B Condition (2°C)	COPd (declared COP)		4.0	3.7	3.8		3.9	3.6	3.7		3.9
		Pdh (declared heating cap)	kW	18.5	19.9	21.0	22.4	24.9	25.0	27.5	29.2	32.7
	C Condition (7°C)	COPd (declared COP)		6.3		6.1	6.2	6.5	6.3	6.5	6.4	6.5
		Pdh (declared heating cap)	kW	11.9	13.0	13.5	14.4	16.0	16.1	17.7	18.8	21.3
	D Condition (12°C)	COPd (declared COP)		8.2	8.9	8.8	9.0			8.8	8.6	8.7
		Pdh (declared heating cap)	kW	6.0	5.7	6.0	6.4	7.1		7.9	8.3	13.1
Space heating (Average climate) recommended combination 2	A Condition (-7°C)	COPd (declared COP)		2.6	2.7	2.6			2.7	2.6	2.5	
		Pdh (declared heating cap)	kW	30.4	32.6	34.5	36.8	41.0		45.2	47.9	53.7
	B Condition (2°C)	COPd (declared COP)		4.1	3.7	3.8		3.9	3.6	3.8	3.7	3.9
		Pdh (declared heating cap)	kW	18.5	19.9	21.0	22.4	24.9	25.0	27.5	29.2	32.7
	C Condition (7°C)	COPd (declared COP)		6.3		6.1	6.3	6.6	6.3	6.6	6.5	
		Pdh (declared heating cap)	kW	11.9	13.1		14.4	16.0	16.1	17.7	18.8	21.3
	D Condition (12°C)	COPd (declared COP)		8.4	9.0	8.9	9.1			8.9	8.8	
		Pdh (declared heating cap)	kW	6.0	5.7	6.0	6.4	7.2	7.1	7.9	8.3	13.2
	TBivalent	COPd (declared COP)		2.2	2.4	2.2		2.1	2.4	2.2		2.3
		Pdh (declared heating cap)	kW	34.4	36.9	39.0	41.6	46.3	46.4	51.1	54.2	60.7
		Tbiv (bivalent temperature)	°C	-10								
	TOL	COPd (declared COP)		2.2	2.4	2.2		2.1	2.4	2.2		2.3
		Pdh (declared heating cap)	kW	34.4	36.9	39.0	41.6	46.3	46.4	51.1	54.2	60.7
		Tol (temperature operating limit)	°C	-10								

2 Specifications

2-3 Technical Specifications					RYYQ22U	RYYQ24U	RYYQ26U	RYYQ28U	RYYQ30U	RYYQ32U	RYYQ34U	RYYQ36U	RYYQ38U
Space heating (Average climate) recommended combination 3	A Condition (-7°C)	COPd (declared COP)			2.6	2.7	2.6		2.5	2.7	2.6	2.4	2.5
		Pdh (declared heating cap)		kW	30.4	32.6	34.5	36.8	41.0		45.2	47.9	53.7
	B Condition (2°C)	COPd (declared COP)			4.0	3.7	3.8		3.9	3.6	3.7	3.6	3.8
		Pdh (declared heating cap)		kW	18.5	19.9	21.0	22.4	24.9	25.0	27.5	29.2	32.7
	C Condition (7°C)	COPd (declared COP)			6.2	6.3	6.1	6.2	6.3		6.4	6.3	
		Pdh (declared heating cap)		kW	11.9	12.9	13.5	14.4	16.0	16.1	17.7	18.8	21.2
	D Condition (12°C)	COPd (declared COP)			8.2	8.9	8.8	9.0	8.6	9.0	8.9	8.3	8.5
		Pdh (declared heating cap)		kW	6.0	5.7	6.0	6.4	7.1		7.9	8.3	12.9
	TBivalent	COPd (declared COP)			2.3	2.4	2.2		2.1	2.4	2.2	2.1	2.2
		Pdh (declared heating cap)		kW	34.4	36.9	39.0	41.6	46.3	46.4	51.1	54.2	60.7
		Tbiv (bivalent temperature)		°C	-10								
	TOL	COPd (declared COP)			2.3	2.4	2.2		2.1	2.4	2.2	2.1	2.2
		Pdh (declared heating cap)		kW	34.4	36.9	39.0	41.6	46.3	46.4	51.1	54.2	60.7
		Tol (temperature operating limit)		°C	-10								
Cooling	Cdc (Degradation cooling)				0.25								
Heating	Cdh (Degradation heating)				0.25								
Power consumption in other than active mode	Off mode	Cooling	POFF	kW	0.081	0.115			0.116	0.149	0.150		0.157
		Heating	POFF	kW	0.103	0.129			0.141	0.154	0.166		0.192
	Standby mode	Cooling	PSB	kW	0.081	0.115			0.116	0.149	0.150		0.157
		Heating	PSB	kW	0.103	0.129			0.141	0.154	0.166		0.192
	Thermostat-off mode	Cooling	PTO	kW	0.009	0.014				0.019			
		Heating	PTO	kW	0.113	0.154			0.155	0.195	0.196		0.211
Indication if the heater is equipped with a supplementary heater					no								
Supplementary heater	Back-up capacity	Heating	elbu	kW	0.0								

Standard Accessories : Installation manual; Quantity : 1;

Standard Accessories : Operation manual; Quantity : 1;

Standard Accessories : Connection pipes; Quantity : 1;

2-4 Technical Specifications		RYYQ40U	RYYQ42U	RYYQ44U	RYYQ46U	RYYQ48U	RYYQ50U	RYYQ52U	RYYQ54U
System	Outdoor unit module 1	RYMQ10U		RYMQ12U	RYMQ14U	RYMQ16U			RYMQ18U
	Outdoor unit module 2	RYMQ12U	RYMQ16U					RYMQ18U	
	Outdoor unit module 3	RYMQ18U	RYMQ16U				RYMQ18U		
Continuous heating		Yes							
Recommended combination		9 x FXFQ50AVEB + 9 x FXFQ63AVEB	12 x FXFQ63AVEB + 4 x FXFQ80AVEB	6 x FXFQ50AVEB + 8 x FXFQ63AVEB + 4 x FXFQ80AVEB	1 x FXFQ50AVEB + 13 x FXFQ63AVEB + 4 x FXFQ80AVEB	12 x FXFQ63AVEB + 6 x FXFQ80AVEB	3 x FXFQ50AVEB + 13 x FXFQ63AVEB + 4 x FXFQ80AVEB	6 x FXFQ50AVEB + 14 x FXFQ63AVEB + 2 x FXFQ80AVEB	9 x FXFQ50AVEB + 15 x FXFQ63AVEB
Recommended combination 2		9 x FXSQ50A2VEB + 9 x FXSQ63A2VEB	12 x FXSQ63A2VEB + 4 x FXSQ80A2VEB	6 x FXSQ50A2VEB + 8 x FXSQ63A2VEB + 4 x FXSQ80A2VEB	1 x FXSQ50A2VEB + 13 x FXSQ63A2VEB + 4 x FXSQ80A2VEB	12 x FXSQ63A2VEB + 6 x FXSQ80A2VEB	3 x FXSQ50A2VEB + 13 x FXSQ63A2VEB + 4 x FXSQ80A2VEB	6 x FXSQ50A2VEB + 14 x FXSQ63A2VEB + 2 x FXSQ80A2VEB	9 x FXSQ50A2VEB + 15 x FXSQ63A2VEB

2 Specifications

2-4 Technical Specifications					RYYQ40U	RYYQ42U	RYYQ44U	RYYQ46U	RYYQ48U	RYYQ50U	RYYQ52U	RYYQ54U
Recommended combination 3					9 x FXMQ50P 7VEB + 9 x FXMQ63P 7VEB	12 x FXMQ63P 7VEB + 4 x FXMQ80P 7VEB	6 x FXMQ50P 7VEB + 8 x FXMQ63P 7VEB + 4 x FXMQ80P 7VEB	1 x FXMQ50P 7VEB + 13 x FXMQ63P 7VEB + 4 x FXMQ80P 7VEB	12 x FXMQ63P 7VEB + 6 x FXMQ80P 7VEB	3 x FXMQ50P 7VEB + 13 x FXMQ63P 7VEB + 4 x FXMQ80P 7VEB	6 x FXMQ50P 7VEB + 14 x FXMQ63P 7VEB + 2 x FXMQ80P 7VEB	9 x FXMQ50P 7VEB + 15 x FXMQ63P 7VEB
Cooling capacity	Prated,c			kW	111.9 (1)	118.0 (1)	123.5 (1)	130.0 (1)	135.0 (1)	140.4 (1)	145.8 (1)	151.2 (1)
Heating capacity	Prated,h			kW	62.3	62.4	64.8	67.0	69.6	74.3	79.0	83.7
	Max.	6°CWB		kW	125.5 (2)	131.5 (2)	137.5 (2)	145.0 (2)	150.0 (2)	156.5 (2)	163.0 (2)	169.5 (2)
SEER					6.7	6.6	6.5	6.4				
SEER recommended combination 2					6.6		6.3	6.4	6.3		6.4	
SEER recommended combination 3					6.7	6.5	6.3		6.2	6.3	6.4	
SCOP					4.3	4.2		4.1		4.2	4.3	
SCOP recommended combination 2					4.4	4.3	4.2				4.3	
SCOP recommended combination 3					4.3	4.2		4.1		4.2		
ηs,c				%	263.5	261.2	255.9	254.9	251.7	252.8	253.7	254.1
ηs,c recommended combination 2					259.2	259.3	249.2	252.2	248.3	250.0	251.6	252.5
ηs,c recommended combination 3					263.2	255.4	250.1	248.3	244.2	248.0	251.5	253.9
ηs,h				%	170.0	165.5	164.5	162.0	162.8	165.2	167.2	169.4
ηs,h recommended combination 2					171.3	167.3	165.6	163.5	164.3	166.7	168.7	170.8
ηs,h recommended combination 3					167.8	164.4	163.5	161.3	161.7	163.2	164.4	166.0
Capacity range				HP	40	42	44	46	48	50	52	54
Maximum number of connectable indoor units					64 (3)							
Indoor index connection	Min.				500.0	525.0	550.0	575.0	600.0	625.0	650.0	675.0
	Max.				1,300.0	1,365.0	1,430.0	1,495.0	1,560.0	1,625.0	1,690.0	1,755.0
Heat exchanger	Indoor side				Air							
	Outdoor side				Air							
	Air flow rate	Cooling	Rated	m³/h	36,660	41,700	42,300	44,580	46,800	46,260	45,720	45,180
		Heating	Rated	m³/h	36,660	41,700	42,300	44,580	46,800	46,260	45,720	45,180
Sound power level	Cooling	Nom.		dBA	87.3 (4)	89.1 (4)	89.8 (4)	89.3 (4)	90.4 (4)	89.8 (4)	89.3 (4)	88.6 (4)
	Heating	Nom.		dBA	70.2 (4)	72.4 (4)		73.3 (4)	73.4 (4)	72.7 (4)	72.0 (4)	71.1 (4)
Sound pressure level	Cooling	Nom.		dBA	65.2 (5)	66.5 (5)	67.2 (5)	67.0 (5)	67.8 (5)	67.5 (5)	67.1 (5)	66.8 (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	41.3							
	Total piping length	System	Actual	m	1,000 (6)							
PED	Category				Category II							
Space cooling	A Condition (35°C - 27/19)	EERd			2.2	2.3		2.4	2.3	2.1	2.0	1.9
		Pdc		kW	111.9	118.0	123.5	130.0	135.0	140.4	145.8	151.2
	B Condition (30°C - 27/19)	EERd			4.5	4.4			4.3	4.2		4.1
		Pdc		kW	82.5	86.9	91.0	95.8	99.5	103.4	107.4	111.4
	C Condition (25°C - 27/19)	EERd			8.3	8.2	8.1					
		Pdc		kW	53.0	55.9	58.5	61.6	64.0	66.5	69.1	71.6
	D Condition (20°C - 27/19)	EERd			16.0	15.4	14.4	14.3		15.9	17.6	19.1
		Pdc		kW	23.6	24.8	26.0	27.4	28.4	29.6	30.7	34.4
Space cooling recommended combination 2	A Condition (35°C - 27/19)	EERd			2.2	2.3			2.2	2.1	2.0	1.9
		Pdc		kW	111.9	118.0	123.5	130.0	135.0	140.4	145.8	151.2
	B Condition (30°C - 27/19)	EERd			4.4		4.3		4.2		4.1	
		Pdc		kW	82.4	86.9	91.0	95.8	99.5	103.5	107.4	111.4
	C Condition (25°C - 27/19)	EERd			8.1	8.2	7.9	8.1	8.0		8.1	
		Pdc		kW	53.0	55.9	58.5	61.6	63.9	66.5	69.0	71.6
	D Condition (20°C - 27/19)	EERd			15.9	15.3	14.0			15.6	17.4	18.9
		Pdc		kW	23.6	24.8	26.0	27.4	28.4	29.6	30.7	34.1

2 Specifications

2-4 Technical Specifications				RYYQ40U	RYYQ42U	RYYQ44U	RYYQ46U	RYYQ48U	RYYQ50U	RYYQ52U	RYYQ54U
Space cooling recommended combination 3	A Condition (35°C - 27/19)	EERd		2.2	2.3			2.2	2.1	2.0	1.9
		Pdc	kW	111.9	118.0	123.5	130.0	135.0	140.4	145.8	151.2
	B Condition (30°C - 27/19)	EERd		4.4	4.3		4.2	4.1			
		Pdc	kW	82.5	87.0	91.0	95.8	99.5	103.5	107.4	111.4
	C Condition (25°C - 27/19)	EERd		8.4	8.0	7.9		7.8	7.9	8.0	8.2
		Pdc	kW	53.0	55.9	58.5	61.6	63.9	66.5	69.1	71.6
	D Condition (20°C - 27/19)	EERd		16.1	15.2	14.2	13.9	13.8	15.6	17.5	19.1
		Pdc	kW	23.6	24.8	26.0	27.4	28.4	29.6	30.7	34.7
Space heating (Average climate)	TBivalent	COPd (declared COP)		2.2	2.4	2.3	2.4		2.3	2.2	2.1
		Pdh (declared heating cap)	kW	62.3	62.4	64.8	67.0	69.6	74.3	79.0	83.7
		Tbiv (bivalent temperature)	°C	-10							
	TOL	COPd (declared COP)		2.2	2.4	2.3	2.4		2.3	2.2	2.1
		Pdh (declared heating cap)	kW	62.3	62.4	64.8	67.0	69.6	74.3	79.0	83.7
		Tol (temperature operating limit)	°C	-10							
	A Condition (-7°C)	COPd (declared COP)		2.6	2.7					2.6	
		Pdh (declared heating cap)	kW	55.1	55.2	57.3	59.3	61.6	65.7	69.9	74.0
	B Condition (2°C)	COPd (declared COP)		4.0	3.7		3.6		3.7	3.8	3.9
		Pdh (declared heating cap)	kW	33.5	33.6	34.9	36.1	37.5	40.0	42.5	45.1
	C Condition (7°C)	COPd (declared COP)		6.5	6.3		6.2	6.3	6.5	6.6	6.8
		Pdh (declared heating cap)	kW	21.6		22.4	23.2	24.1	25.7	27.4	29.0
	D Condition (12°C)	COPd (declared COP)		8.7	8.6		8.7	8.8	8.9	9.0	
		Pdh (declared heating cap)	kW	13.1	9.9	10.0	10.3	10.7	12.0	14.2	
Space heating (Average climate) recommended combination 2	A Condition (-7°C)	COPd (declared COP)		2.6	2.7					2.6	
		Pdh (declared heating cap)	kW	55.1	55.2	57.3	59.3	61.6	65.7	69.9	74.0
	B Condition (2°C)	COPd (declared COP)		4.0	3.7		3.6		3.7	3.8	3.9
		Pdh (declared heating cap)	kW	33.5	33.6	34.9	36.1	37.5	40.0	42.6	45.1
	C Condition (7°C)	COPd (declared COP)		6.5	6.4	6.3			6.5	6.7	6.8
		Pdh (declared heating cap)	kW	21.6		22.4	22.8	24.1	25.7	27.4	29.0
	D Condition (12°C)	COPd (declared COP)		8.8	8.7		8.8	8.9	9.0	9.1	
		Pdh (declared heating cap)	kW	13.2	10.0		10.3	10.7	12.2	14.4	
	TBivalent	COPd (declared COP)		2.2	2.4	2.3	2.4		2.3	2.2	2.1
		Pdh (declared heating cap)	kW	62.3	62.4	64.8	67.0	69.6	74.3	79.0	83.7
		Tbiv (bivalent temperature)	°C	-10							
	TOL	COPd (declared COP)		2.2	2.4	2.3	2.4		2.3	2.2	2.1
		Pdh (declared heating cap)	kW	62.3	62.4	64.8	67.0	69.6	74.3	79.0	83.7
		Tol (temperature operating limit)	°C	-10							

2 Specifications

2-4 Technical Specifications					RYYQ40U	RYYQ42U	RYYQ44U	RYYQ46U	RYYQ48U	RYYQ50U	RYYQ52U	RYYQ54U
Space heating (Average climate) recommended combination 3	A Condition (-7°C)	COPd (declared COP)			2.6	2.7	2.6	2.7		2.6		2.5
		Pdh (declared heating cap)		kW	55.1	55.2	57.3	59.3	61.6	65.7	69.9	74.0
	B Condition (2°C)	COPd (declared COP)			3.9	3.7		3.6			3.7	3.8
		Pdh (declared heating cap)		kW	33.5	33.6	34.9	36.1	37.5	40.0	42.5	45.1
	C Condition (7°C)	COPd (declared COP)			6.4	6.3	6.2		6.3	6.4		6.5
		Pdh (declared heating cap)		kW	21.6		22.4	23.2	24.1	25.7	27.3	29.0
	D Condition (12°C)	COPd (declared COP)			8.4	8.6		8.7	8.8	8.7		
		Pdh (declared heating cap)		kW	12.8	9.9	10.0	10.3	10.7	11.8	13.7	
	TBivalent	COPd (declared COP)			2.2	2.4	2.3	2.4		2.2		2.1
		Pdh (declared heating cap)		kW	62.3	62.4	64.8	67.0	69.6	74.3	79.0	83.7
		Tbiv (bivalent temperature)		°C	-10							
	TOL	COPd (declared COP)			2.2	2.4	2.3	2.4		2.2		2.1
		Pdh (declared heating cap)		kW	62.3	62.4	64.8	67.0	69.6	74.3	79.0	83.7
		Tol (temperature operating limit)		°C	-10							
Cooling	Cdc (Degradation cooling)				0.25							
Heating	Cdh (Degradation heating)				0.25							
Power consumption in other than active mode	Off mode	Cooling	POFF	kW	0.157	0.190		0.223		0.224	0.225	0.226
		Heating	POFF	kW	0.192	0.206		0.231		0.243	0.255	0.267
	Standby mode	Cooling	PSB	kW	0.157	0.190		0.223		0.224	0.225	0.226
		Heating	PSB	kW	0.192	0.206		0.231		0.243	0.255	0.267
	Thermostat-off mode	Cooling	PTO	kW	0.019	0.024		0.029				
		Heating	PTO	kW	0.211	0.251		0.292		0.293	0.294	
Indication if the heater is equipped with a supplementary heater					no							
Supplementary heater	Back-up capacity	Heating	elbu	kW	0.0							

Standard Accessories : Installation manual; Quantity : 1;

Standard Accessories : Operation manual; Quantity : 1;

Standard Accessories : Connection pipes; Quantity : 1;

2-5 Electrical Specifications				RYYQ22U	RYYQ24U	RYYQ26U	RYYQ28U	RYYQ30U	RYYQ32U	RYYQ34U	RYYQ36U	RYYQ38U
Power supply	Name			Y1								
	Phase			3N~								
	Frequency		Hz	50								
	Voltage		V	380-415								
Voltage range	Min.		%	-10								
	Max.		%	10								
Current	Nominal running current (RLA) - 50Hz	Cooling	A	22.9 (7)	25.2 (7)	28.1 (7)	30.7 (7)	33.5 (7)	36.0 (7)	38.8 (7)	44.9 (7)	44.3 (7)
Current - 50Hz	Starting current (MSC) - remark			(8)								
	Zmax	List		No requirements								
	Minimum circuit amps (MCA)		A	46.0 (9)		51.0 (9)	55.0 (9)	59.0 (9)	62.0 (9)	66.0 (9)	70.0 (9)	76.0 (9)
	Maximum fuse amps (MFA)		A	63 (10)				80 (10)				100 (10)
Wiring connections - 50Hz	For power supply	Quantity		5G								
	For connection with indoor	Quantity		2								
		Remark		F1,F2								
Power supply intake				Both indoor and outdoor unit								

2-6 Electrical Specifications			RYYQ40U	RYYQ42U	RYYQ44U	RYYQ46U	RYYQ48U	RYYQ50U	RYYQ52U	RYYQ54U
Power supply	Name		Y1							
	Phase		3N~							
	Frequency	Hz	50							
	Voltage	V	380-415							

2 Specifications

2-6 Electrical Specifications				RYYQ40U	RYYQ42U	RYYQ44U	RYYQ46U	RYYQ48U	RYYQ50U	RYYQ52U	RYYQ54U
Voltage range	Min.		%	-10							
	Max.		%	10							
Current	Nominal running current (RLA) - 50Hz	Cooling	A	43.7 (7)	46.2 (7)	48.7 (7)	51.4 (7)	54.0 (7)	56.8 (7)	59.6 (7)	62.4 (7)
Current - 50Hz	Starting current (MSC) - remark			(8)							
	Zmax	List		No requirements							
	Minimum circuit amps (MCA)		A	81.0 (9)	84.0 (9)	86.0 (9)	89.0 (9)	93.0 (9)	97.0 (9)	101.0 (9)	105.0 (9)
	Maximum fuse amps (MFA)		A	100 (10)				125 (10)			
Wiring connections - 50Hz	For power supply	Quantity		5G							
	For connection with indoor	Quantity		2							
		Remark		F1,F2							
Power supply intake				Both indoor and outdoor unit							

Notes

(1) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 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. VRV IV uses only inverter compressors. Starting current is always ≤ max. running current.

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

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

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 wih Ssc ≥ minimum Ssc value

FLA means the nominal running current of the fan

Maximum allowable voltage range variation between phases is 2%.

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

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

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

Sound values are measured in a semi-anechoic room.

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

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

Ssc: Short-circuit power

For detailed contents of standard accessories, see installation/operation manual

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

2-7 Technical Specifications				RYMQ10U	RYMQ12U	RYMQ14U	RYMQ16U	RYMQ18U	RYMQ20U	RYMQ8U
Dimensions	Unit	Height	mm	1,685						
		Width	mm	930		1,240				930
		Depth	mm	765						
	Packed unit	Height	mm	1,820						
		Width	mm	995		1,305				995
		Depth	mm	860						
Weight	Unit		kg	198		275		308		198
	Packed unit		kg	211		291		324		211
Packing	Material			Carton						
	Weight		kg	1.8		2.2				1.8

2 Specifications

2-7 Technical Specifications					RYMQ10U	RYMQ12U	RYMQ14U	RYMQ16U	RYMQ18U	RYMQ20U	RYMQ8U
Packing 2	Material				Wood						
	Weight			kg	11.0		14.0				11.0
Packing 3	Material				Plastic						
	Weight			kg	0.5		0.6				0.5
Capacity control	Method				Inverter controlled						
Casing	Colour				Daikin White						
	Material				Painted galvanized steel plate						
Compressor	Quantity				1		2				1
	Type				Hermetically sealed scroll compressor						
	Crankcase heater			W	33						
Fan	Quantity				1		2				1
	External static pressure	Max.		Pa	78						
Fan motor	Quantity				1		2				1
	Type				DC motor						
	Output			W	550		750				550
Sound power level	Cooling	Nom.		dBA	79.1	83.4	80.9	85.6	83.8	87.9	78.0
	Heating	Nom.		dBA	64.8	64.9	68.3	68.6	66.3	67.0	62.7
Sound pressure level	Cooling	Nom.		dBA	57.0	61.0	60.0	63.0	62.0	65.0	57.0
Operation range	Cooling	Min.~Max.		°CDB	-5.0~43.0						
	Heating	Min.~Max.		°CWB	-20.0~15.5						
Refrigerant	Type				R-410A						
	GWP				2,087.5						
	Charge			TCO_2eq	12.5	13.2	21.5	23.6	24.4	24.6	12.3
				kg	6.0	6.3	10.3	11.3	11.7	11.8	5.9
Refrigerant oil	Type				Synthetic (ether) oil FVC68D						
Piping connections	Liquid	Type			Braze connection						
		OD		mm	9,52	12,7			15,9		9,52
	Gas	Type			Braze connection						
		OD		mm	22.2	28.6					19.1
	Equalizing	Type			Braze connection						
		OD		mm	22.2				28.6		19.1
	Total piping length	System	Actual	m	1,000						
Defrost method					Reversed cycle						
Safety devices	Item	01			High pressure switch						
		02			Fan driver overload protector						
		03			Inverter overload protector						
		04			PC board fuse						
		05			Leakage current detector						

3 Options

3 - 1 Options

RXYQQ-U
RXYQ-U
RYYQ-U
RYMQ-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 4.	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 note 5.	DTA104A61/62*						
5	Demand PCB mounting plate	See note 5.	---			KKSB26B1*			

Notes

1 All options are kits
2 Only for multi units
3 To operate the cool/heat selector function, options 1a and 1b are both required.
4 To mount option 1a, option 1c is required.
5 To install the demand PCB on the large casing type, the demand PCB mounting plate is required.

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

3D120006

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	18HP	20HP
Heat pump	RXYQ8* / RYYQ8* / RXYQQ8*	1						
	RXYQ10* / RYYQ10* / RXYQQ10*		1					
	RXYQ12* / RYYQ12* / RXYQQ12*			1				
	RXYQ14* / RYYQ14* / RXYQQ14*				1			
	RXYQ16* / RYYQ16* / RXYQQ16*					1		
	RXYQ18* / RYYQ18* / RXYQQ18*						1	
	RXYQ20* / RYYQ20* / RXYQQ20*							1
Multi-combination with 2 outdoor units	RXYQ22* / RYYQ22* / RXYQQ22*		1	1				
	RXYQ24* / RYYQ24* / RXYQQ24*	1				1		
	RXYQ26* / RYYQ26* / RXYQQ26*			1	1			
	RXYQ28* / RYYQ28* / RXYQQ28*			1		1		
	RXYQ30* / RYYQ30* / RXYQQ30*			1			1	
	RXYQ32* / RYYQ32* / RXYQQ32*					2		
	RXYQ34* / RYYQ34* / RXYQQ34*					1	1	
	RXYQ36* / RYYQ36* / RXYQQ36*					1		1
Multi-combination with 3 outdoor units	RXYQ38* / RYYQ38* / RXYQQ38*	1	1					1
	RXYQ40* / RYYQ40* / RXYQQ40*		1	1			1	
	RXYQ42* / RYYQ42* / RXYQQ42*		1			2		
	RXYQ44* / RYYQ44*			1		2		
	RXYQ46* / RYYQ46*				1	2		
	RXYQ48* / RYYQ48*					3		
	RXYQ50* / RYYQ50*					2	1	
	RXYQ52* / RYYQ52*					1	2	
	RXYQ54* / RYYQ54*						3	

Remark
RYYQ8~20 = Single continuous heating
RYYQ22~54 Multi continuous heating
RXYQ8~20 = Single non-continuous heating
RXYQ22~54 Multi non-continuous heating
RXYQQ8~20 Single non-continuous heating replacement (VRV4-Q)
RXYQQ22~4 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 RYMQ8~20 units (e.g. RYYQ36*=RYMQ16*+RYMQ20*).
→ RYMQ* 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 RYMQ* units.
7) Multi "non-continuous heating" replacement models only consist of RXYQQ8-20 modules (e.g. RXYQQ36*=RXYQQ16*+RXYQQ20*).
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

RYYQ8-20U
RYMQ8-20U
RXYQ8-20U

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

Wall mounted type	*Emura*	FTXJ20M FTXJ25M FTXJ35M FTXJ50M
	Stylish	FTXA20 FTXA25 FTXA35 FTXA42 FTXA50
Ceiling/wall mounted	*Flex*	FLXS25B FLXS35B FLXS50B FLXS60B
Floor standing type	*FVXM*	FVXM25F FVXM35F FVXM50F
	Nexura	FVXG25K FVXG35K FVXG50K

Remark

- The limitations on the use of ·RA DX· indoor units with the ·VRV4· Heat Pump are subject to the rules set out in drawings ·3D079543· and ·3D079540·.
- If you want to connect ·RA·/·SA· ·DX· cassette, ceiling-mounted, or duct indoor units, use their ·VRV DX· indoor unit equivalents instead.

3D082373D

4 Combination table

4 - 1 Combination Table

RXYQ-U
RYYQ-U
RYMQ-U

VRV4
Heat pump
Indoor unit combination restrictions
(1/2)

Indoor unit combination pattern	·VRV* DX· indoor unit	·RA DX· indoor unit	Hydrobox unit	Air handling unit (AHU) (3)
·VRV* DX· indoor unit	O	O	O	O
·RA DX· indoor unit	O	O	X	X
Hydrobox unit	O	X	O_1	X
Air handling unit (3)	O	X	X	O_2

O: Allowed
X: Not allowed

Notes

1. ·VRV* DX· indoor unit
- When combining ·VRV DX· indoor units with other types of indoor units, respect the following combination patterns:

Example
Allowed : *(·VRV DX· indoor unit + ·Hydrobox· unit)* ***or*** *(·VRV DX· indoor unit + ·RA DX· indoor unit)* ***or*** *(·VRV DX· indoor unit + ·AHU·)*
Not allowed : *[·VRV DX· indoor unit + (·RA DX· indoor unit & (·Hydrobox· unit or ·AHU·))]* ***or*** *[·VRV DX· indoor unit + (·Hydrobox· unit & (·RA DX· indoor unit or ·AHU·))]*

2. O_1
- Only connect ·Hydrobox· units to a ·VRV IV· Heat Pump in combination with a ·VRV DX· indoor unit.
  → Refer to the connection ratio restrictions (·3D079540 & 3D117169·).
  → Connection with only Hydrobox units: refer to the Daikin Altherma solutions.
- Only connect ·Hydrobox· units of the ·HXY*· series.
  → ·HXHD*· series ·Hydrobox· units are not allowed.

3. O_2
- *Combination of ·AHU· only + control box ·EKEQFA· (the combination with ·VRV DX· indoor units is not allowed; maximum ·54·HP for ·400 + 2x500· class ·EKEXV· kit)*
  → ·X·-control is possible (up to ·3x· [·EKEXV+EKEQFA*· boxes] can be connected to one outdoor unit (system)). No Variable Refrigerant Temperature control possible.
  → ·Y·-control is possible (up to ·3x· [·EKEXV+EKEQFA*· boxes] can be connected to one outdoor unit (system)). No Variable Refrigerant Temperature control possible.
  → ·W·-control is possible (up to ·3x· [·EKEXV+EKEQFA*· boxes] can be connected to one outdoor unit (system)). No Variable Refrigerant Temperature control possible.

- *Combination of ·AHU· only + control box ·EKEQMA· (not combined with ·VRV DX· indoor units)*
  → Z-control is possible (the allowed number of [·EKEXV + EKEQMA· boxes] is determined by the connection ratio (·90-110%·) and the capacity of the outdoor unit.

4. Combination of ·AHU· and ·VRV DX· indoor units
→ Z-control is possible (·EKEQMA*· boxes are allowed, but with a limited connection ratio).

5. The combination of ·AHU· with ·Hydrobox· units or ·RA DX· indoor units is not allowed.

6. (3) The following units are considered AHUs:
→ ·EKEXV + EKEQ(MA/FA) + AHU· coil
→ ·Biddle· air curtain
→ ·FXMQ_MF· units

Information
- ·VKM· units are considered to be regular ·VRV DX· indoor units.

3D079543F

RXYQ-U
RYYQ-U
RYMQ-U

VRV4
Heat pump
Indoor unit combination restrictions
(2/2)

Combination table	RYYQ* Single continuous heating	RYYQ* Multi continuous heating	RXYQ* RXMLQ* RXYLQ* Single non-continuous heating	RXYQ* RXMLQ* RXYLQ* Multi non-continuous heating
·VRV* DX· indoor unit	O	O	O	O
·RA DX· indoor unit	O	X	O	X
Hydrobox unit	O	O_1	O	O_1
Air handling unit (AHU) (2)	O	O	O	O

O: Allowed
X: Not allowed

Notes

1. O_1
- Available upon request through the ·SPN· procedure.

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

3D079543F

4 Combination table

4 - 1 Combination Table

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.

1. In case the system contains these indoor units and the total connection ratio (CR) ≤ 100%: no special restrictions. Follow the restrictions that apply to regular VRV DX indoor units.
2. In case the system contains these indoor units and the total connection ratio (CR) > 100%: special restrictions apply.
   A. When the connection ratio (CR1) of the sum of all FXZQ15A and/or FXAQ15A units in the system ≤ 70%, and ALL other VRV DX indoor units have an individual capacity class > 50: no special restrictions.
   B. When the connection ratio (CR1) of the sum of all FXZQ15A and/or FXAQ15A units in the system ≤ 70%, and NOT ALL other VRV DX indoor units have an individual capacity class > 50: the restrictions below apply.
      - 100% < CR ≤ 105% → CR1 of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be ≤ 70%.
      - 105% < CR ≤ 110% → CR1 of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be ≤ 60%.
      - 110% < CR ≤ 115% → CR1 of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be ≤ 40%.
      - 115% < CR ≤ 120% → CR1 of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be ≤ 25%.
      - 120% < CR ≤ 125% → CR1 of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be ≤ 10%.
      - 125% < CR ≤ 130% → FXZQ15A andFXAQ15A cannot be used

REMARK

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

3D104665

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.
  Click here to access the capacity table viewer.

- For more information about all our tools we offer click here to see the overview on my.daikin.eu

5 Capacity tables

5 - 2 Capacity Correction Factor

RXYQQ-U
RXYQ-U
RYYQ-U **VRV4**
RYMQ-U **Heat pump**

Integrated heating capacity coefficient

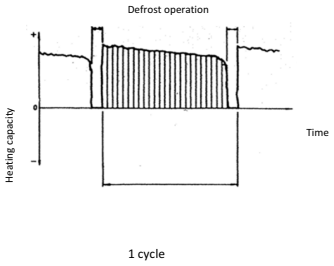
The heating capacity tables do not take into account the capacity reduction in case of frost accumulation or defrost operation.
The capacity values that take these factors into account, or in other words, the integrated heating capacity values, can be calculated as follows:

Formula

A = Integrated heating capacity
B = Capacity characteristics value (see table)
C = Integrated correction factor for frost accumulation (see table)
A = B * C

Inlet air temperature of heat exchanger

[°CDB/°CWB]	-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.

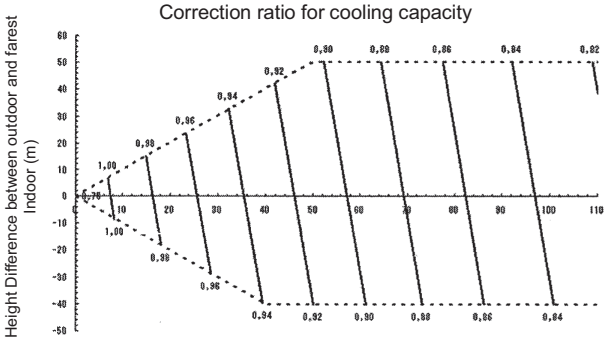
3D079898A

5 Capacity tables

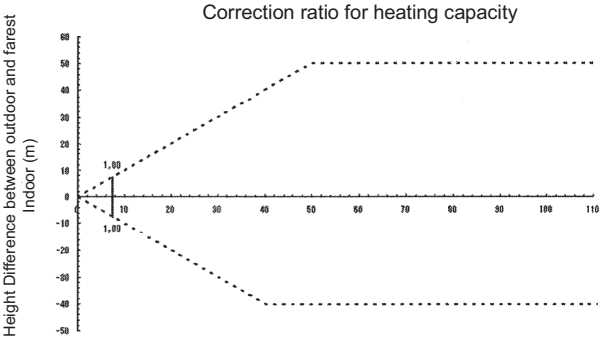
5 - 2 Capacity Correction Factor

RXYQQ8U
RXYQ8U
RYYQ8U
RYMQ8U

Correction ratio for cooling capacity



Correction ratio for heating capacity



NOTES

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

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

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

   Condition: Indoor connection ratio does not exceed 100%.

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

   Condition: Indoor connection ratio exceeds 100%.

   Maximum capacity of outdoor units = Capacity of outdoor units from capacity table at installed connection ratio
   x Correction ratio of piping to furthest indoor

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

Model	Gas	Liquid
8HP	22.2	12.7

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

   Diameter of main pipes (standard size)

Model	Gas	Liquid
8HP	19.1	9.5

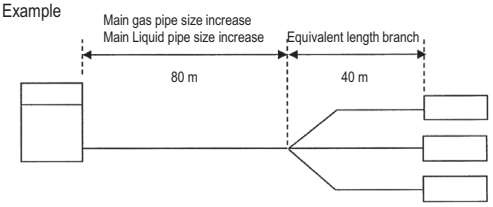
6. Equivalent length used in the above figures is based upon the following equivalent length

   Equivalent piping length =
   Equivalent length of main pipe x Correction factor
   +
   Equivalent length of branch pipes

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

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

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 rete of change in cooling capacity when height difference = 0 is thus approximately 0.86
heating capacity when height difference = 0 is thus approximately 1.0

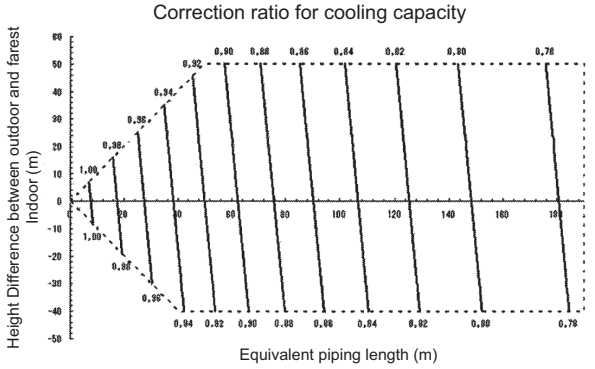
3D079897A

5 Capacity tables

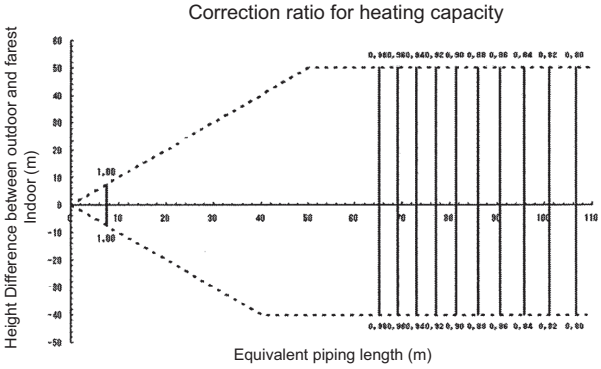
5 - 2 Capacity Correction Factor

RXYQQ10U
RXYQ10U
RYYQ10U
RYMQ10U

Correction ratio for cooling capacity



Correction ratio for heating capacity



NOTES

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

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

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

   Condition: Indoor connection ratio does not exceed 100%.

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

   Condition: Indoor connection ratio exceeds 100%.

Maximum capacity of outdoor units	=	Capacity of outdoor units from capacity table at installed connection ratio
	x	Correction ratio of piping to furthest indoor

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

Model	Gas	Liquid
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).

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

Model	Gas	Liquid
10 HP	22.2	9.5

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

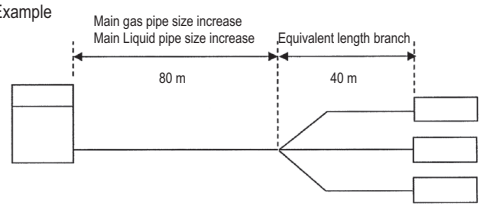
   Equivalent piping length =

   Equivalent length of main pipe x Correction factor
   +
   Equivalent length of branch pipes

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

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

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

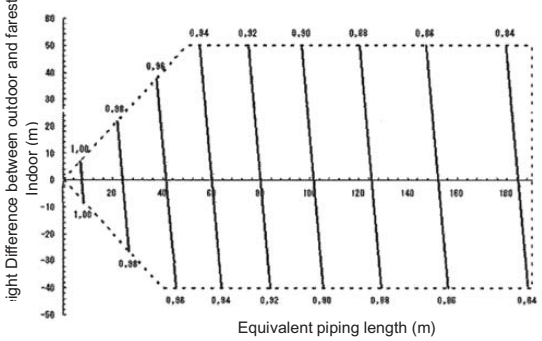
3D079897A

5 Capacity tables

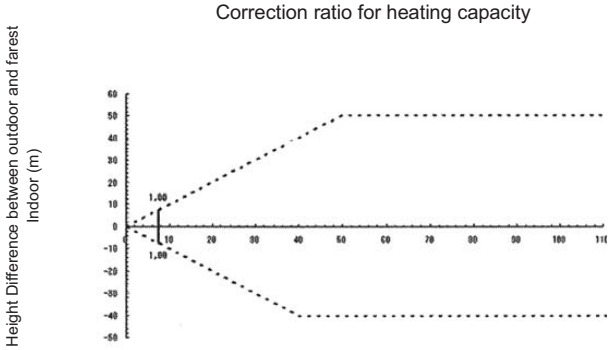
5 - 2 Capacity Correction Factor

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

Correction ratio for cooling capacity



Correction ratio for heating capacity



NOTES

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

   Condition: Indoor connection ratio does not exceed 100%.

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

   Condition: Indoor connection ratio exceeds 100%.

   Maximum capacity of outdoor units = Capacity of outdoor units from capacity table at installed connection ratio
   x Correction ratio of piping to furthest indoor

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

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

5. 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

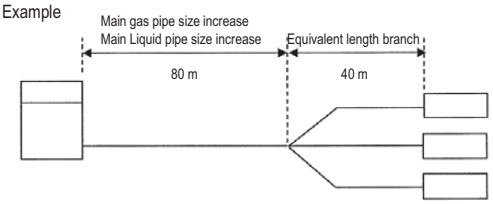
6. Equivalent length used in the above figures is based upon the following equivalent length

   Equivalent piping length =
   Equivalent length of main pipe x Correction factor
   +
   Equivalent length of branch pipes

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

	Correction factor	
	Standard size	Size increase
Cooling (gas pipe)	1,0	
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

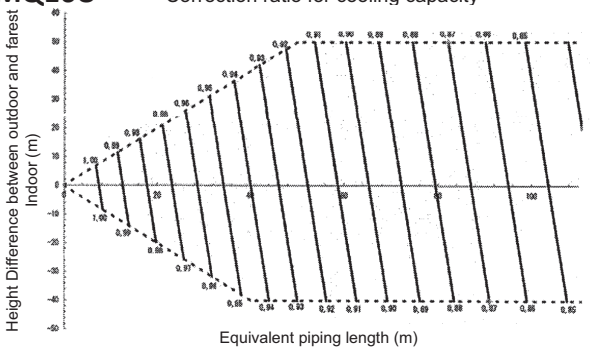
3D079897A

5 Capacity tables

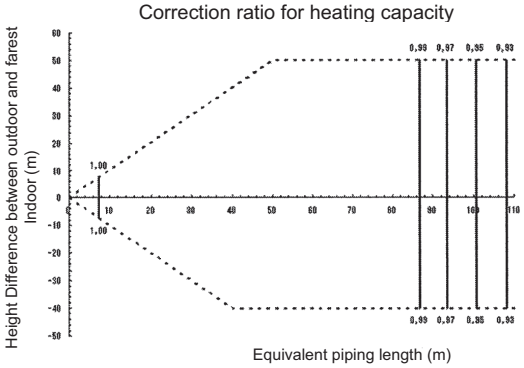
5 - 2 Capacity Correction Factor

RXYQQ16U
RXYQ16U
RYYQ16U
RYMQ16U

Correction ratio for cooling capacity



Correction ratio for heating capacity



NOTES

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

   Condition: Indoor connection ratio does not exceed 100%.

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

   Condition: Indoor connection ratio exceeds 100%.

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

Model	Gas	Liquid
16 HP	31.8*	15.9

   *If not available on site, do not increase. If not increased correction factor should be applied to the equivalent length (see note 6).
5. When the pipe length after the first refrigerant branch kit is more than 40 m, pipe size between first and final branch kit must be increased (only for VRV DX indoor units; details see installation manual).
   *Refer to the installation manual for allowed system setups and rules for dedicated indoor connection types.

   Diameter of main pipes (standard size)

Model	Gas	Liquid
16 HP	28.6	12.7

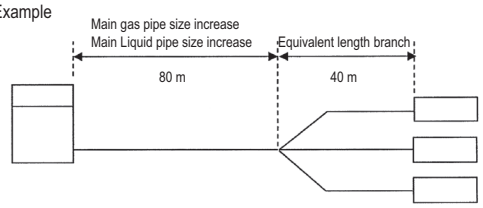
6. Equivalent length used in the above figures is based upon the following equivalent length

   Equivalent piping length =
   Equivalent length of main pipe x Correction factor
   +
   Equivalent length of branch pipes

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

	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

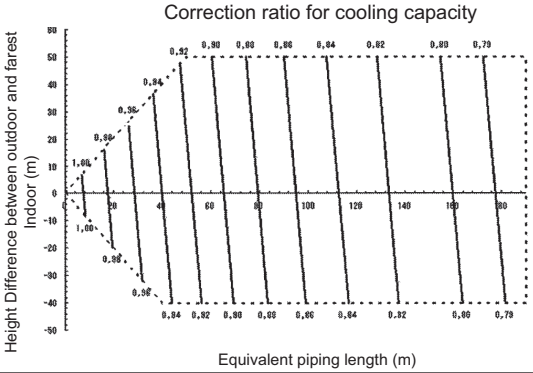
3D079897A

5 Capacity tables

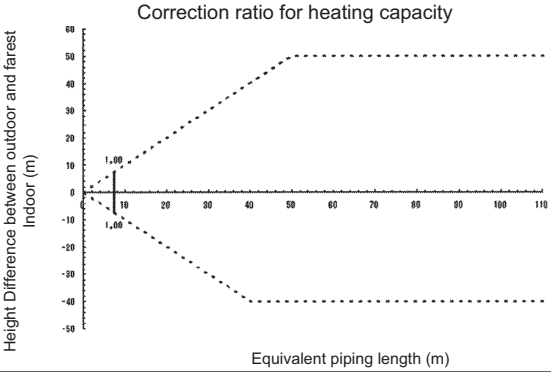
5 - 2 Capacity Correction Factor

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

Correction ratio for cooling capacity



Correction ratio for heating capacity



NOTES

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

   Condition: Indoor connection ratio does not exceed 100%.

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

   Condition: Indoor connection ratio exceeds 100%.

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

Model	Gas	Liquid
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).
5. 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

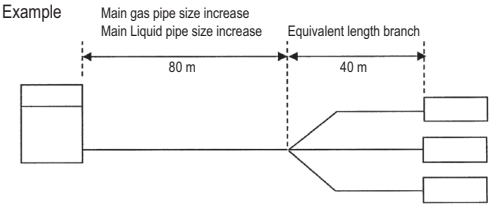
6. Equivalent length used in the above figures is based upon the following equivalent length

   Equivalent piping length =
   Equivalent length of main pipe x Correction factor
   +
   Equivalent length of branch pipes

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

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

   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

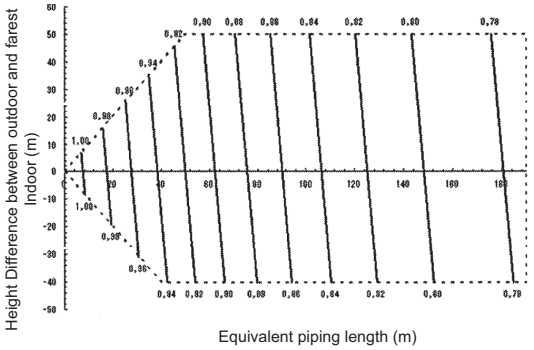
3D079897A

5 Capacity tables

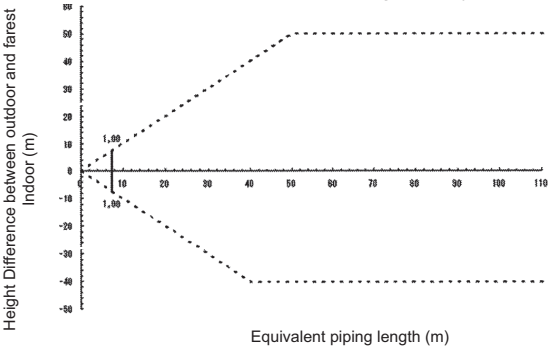
5 - 2 Capacity Correction Factor

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

Correction ratio for cooling capacity



Correction ratio for heating capacity



NOTES

1. These figures illustrate the correction ratio for piping length in capacity for a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, shown it the above figures.
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   Maximum capacity of outdoor units = Capacity of outdoor units from capacity table at the 100% connection ratio
   x Correction ratio of piping to furthest indoor

   Condition: Indoor connection ratio exceeds 100%.

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

Model	Gas	Liquid
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).
5. 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

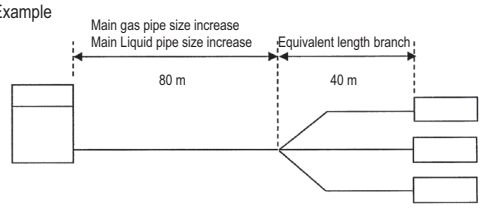
6. Equivalent length used in the above figures is based upon the following equivalent length

   Equivalent piping length =
   Equivalent length of main pipe x Correction factor
   +
   Equivalent length of branch pipes

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

	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

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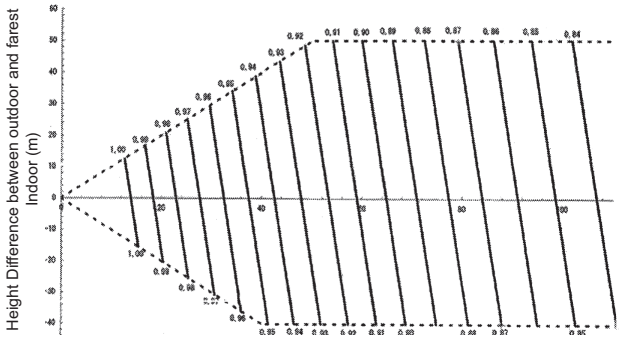
5 Capacity tables

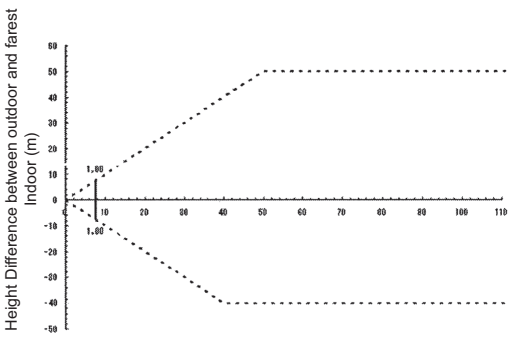
5 - 2 Capacity Correction Factor

RXYQQ22U
RXYQ22U
RYYQ22U
RYMQ22U

Correction ratio for cooling capacity



Correction ratio for heating capacity



NOTES

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

   Condition: Indoor connection ratio does not exceed 100%.

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

   Condition: Indoor connection ratio exceeds 100%.

Maximum capacity of outdoor units	=	Capacity of outdoor units from capacity table at installed connection ratio
	x	Correction ratio of piping to furthest indoor

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

Model	Gas	Liquid
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).

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

Model	Gas	Liquid
22 HP	28.6	15.9

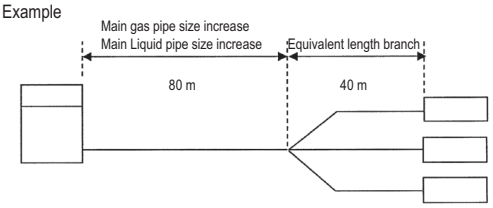
6. Equivalent length used in the above figures is based upon the following equivalent length

Overal equivalent length	=		
Equivalent length of main pipe	x	Correction factor	
+			
Equivalent length of branch pipes			

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

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

   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

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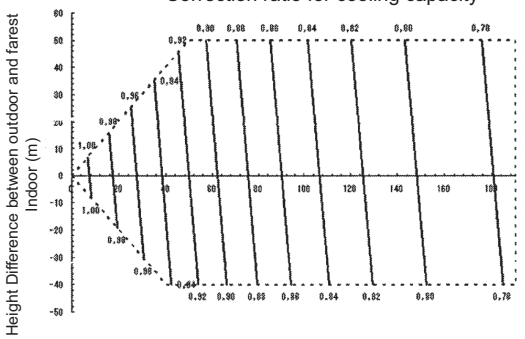
5 Capacity tables

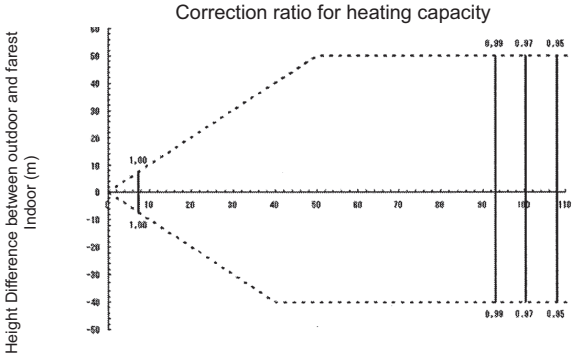
5 - 2 Capacity Correction Factor

RYYQ46U
RXYQ46U

Correction ratio for cooling capacity



Correction ratio for heating capacity



NOTES

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

   Condition: Indoor connection ratio does not exceed 100%.

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

   Condition: Indoor connection ratio exceeds 100%.

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

Model	Gas	Liquid
46 HP	41.3	22.2

5. 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
46 HP	41.3	19.1

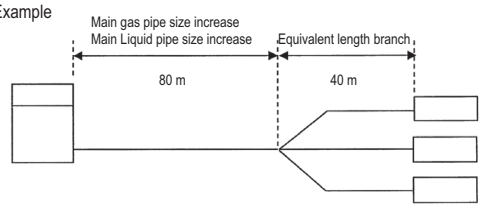
6. Equivalent length used in the above figures is based upon the following equivalent length

   Equivalent piping length =
   Equivalent length of main pipe x Correction factor
   +
   Equivalent length of branch pipes

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

	Correction factor	
	Standard size	Size increase
Cooling (gas pipe)	1.0	
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 0.83
   heating capacity when height difference = 0 is thus approximately 1.0

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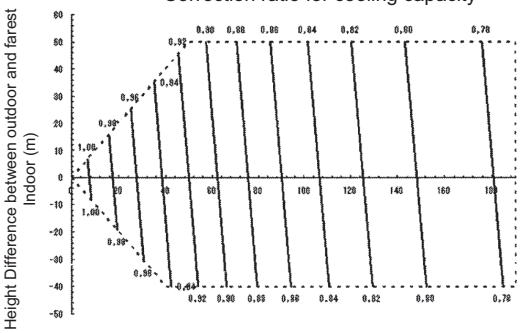
5 Capacity tables

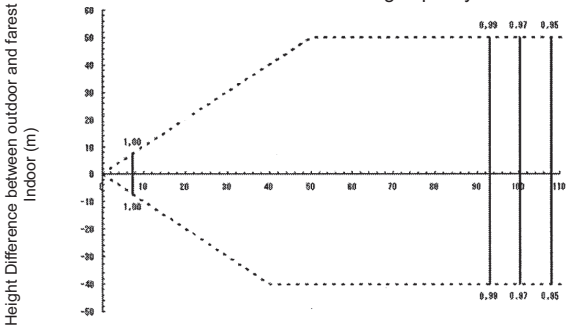
5 - 2 Capacity Correction Factor

RYYQ48U
RXYQQ48U
RXYQ48U

Correction ratio for cooling capacity



Correction ratio for heating capacity



NOTES

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

   Condition: Indoor connection ratio does not exceed 100%.

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

   Condition: Indoor connection ratio exceeds 100%.

Maximum capacity of outdoor units	=	Capacity of outdoor units from capacity table at installed connection ratio
	x	Correction ratio of piping to furthest indoor

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

Model	Gas	Liquid
48 HP	41.3	22.2

5. 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
48 HP	41.3	19.1

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

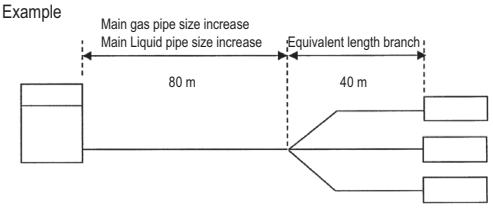
   Equivalent piping length =

   Equivalent length of main pipe x Correction factor
   +
   Equivalent length of branch pipes

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

	Correction factor	
	Standard size	Size increase
Cooling (gas pipe)	1.0	
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 0.83
   heating capacity when height difference = 0 is thus approximately 0.97

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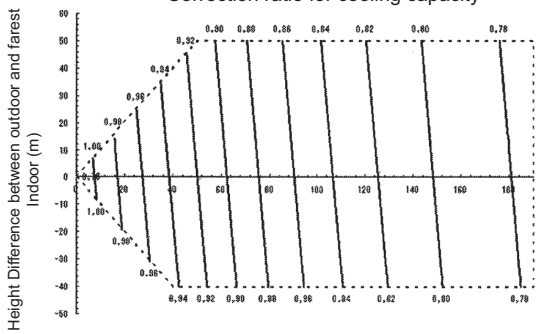
5 Capacity tables

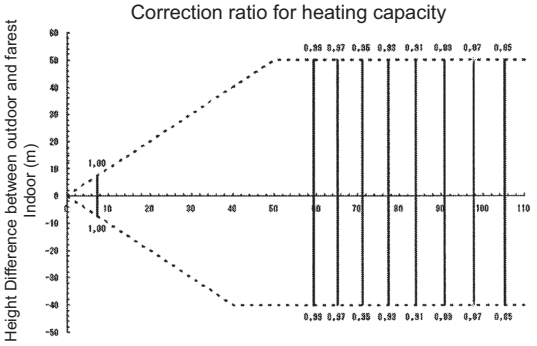
5 - 2 Capacity Correction Factor

RYYQ50U
RXYQQ50U
RXYQ50U

Correction ratio for cooling capacity



Correction ratio for heating capacity



NOTES

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

   Condition: Indoor connection ratio does not exceed 100%.

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

   Condition: Indoor connection ratio exceeds 100%.

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

Model	Gas	Liquid
50 HP	41.3	22.2

5. 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
50 HP	41.3	19.1

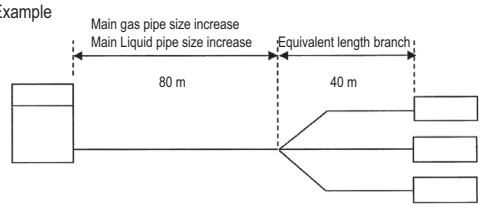
6. Equivalent length used in the above figures is based upon the following equivalent length

   Equivalent piping length =
   Equivalent length of main pipe x Correction factor
   +
   Equivalent length of branch pipes

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

	Correction factor	
	Standard size	Size increase
Cooling (gas pipe)	1.0	
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 0.83
   heating capacity when height difference = 0 is thus approximately 0.92

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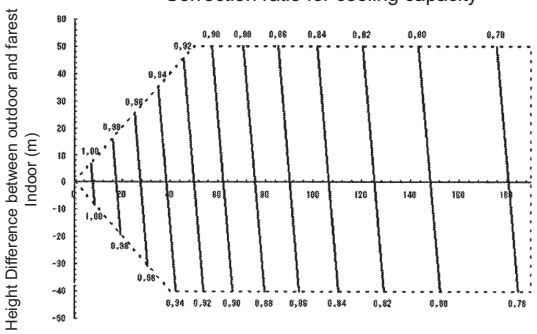
5 Capacity tables

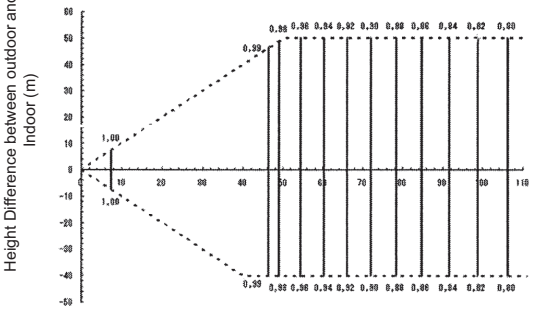
5 - 2 Capacity Correction Factor

RYYQ52U
RXYQQ52U
RXYQ52U

Correction ratio for cooling capacity



Correction ratio for heating capacity



NOTES

1. These figures illustrate the correction ratio for piping length in capacity for a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, shown it the above figures.
2. With this outdoor unit, constant evaporating pressure control when cooling and constant condensing pressure control when heating is carried out.
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   Condition: Indoor connection ratio does not exceed 100%.

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

   Condition: Indoor connection ratio exceeds 100%.

Maximum capacity of outdoor units	=	Capacity of outdoor units from capacity table at installed connection ratio
	x	Correction ratio of piping to furthest indoor

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

Model	Gas	Liquid
52 HP	41.3	22.2

5. 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
52 HP	41.3	19.1

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

   Equivalent piping length =

   Equivalent length of main pipe x Correction factor

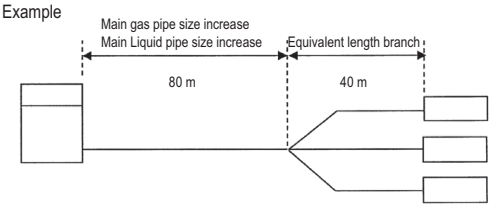
   +

   Equivalent length of branch pipes

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

	Correction factor	
	Standard size	Size increase
Cooling (gas pipe)	1.0	
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 0.83
   heating capacity when height difference = 0 is thus approximately 0.88

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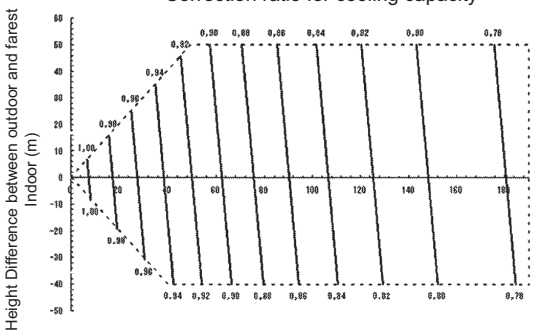
5 Capacity tables

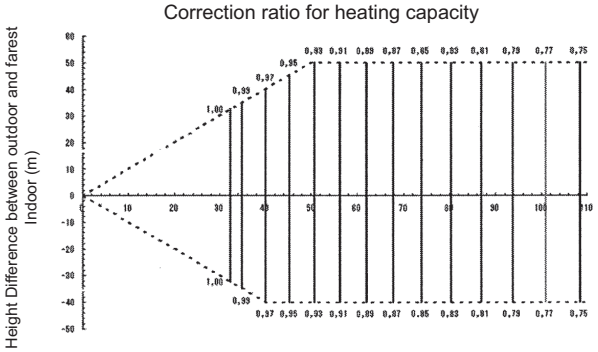
5 - 2 Capacity Correction Factor

RYYQ54U
RXYQQ54U
RXYQ54U

Correction ratio for cooling capacity



Correction ratio for heating capacity



NOTES

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   x Correction ratio of piping to furthest indoor

   Condition: Indoor connection ratio exceeds 100%.

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

Model	Gas	Liquid
54 HP	41.3	22.2

5. 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
54 HP	41.3	19.1

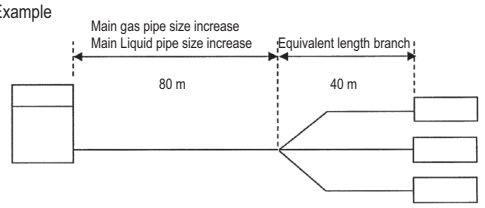
6. Equivalent length used in the above figures is based upon the following equivalent length

   Equivalent piping length =
   Equivalent length of main pipe x Correction factor
   +
   Equivalent length of branch pipes

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

	Correction factor	
	Standard size	Size increase
Cooling (gas pipe)	1.0	
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 0.83
   heating capacity when height difference = 0 is thus approximately 0.83

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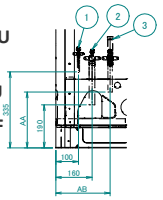
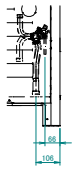
6 Dimensional drawings

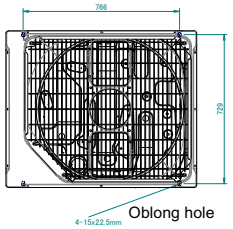
6 - 1 Dimensional Drawings

REMQ5U
REYQ8-12U
RXYQQ8-12U
RXYQ8-12U
RYMQ8-12U
RXYTQ8-UYF
RYYQ8-12U

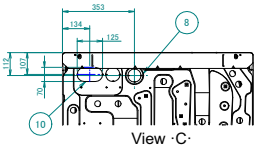


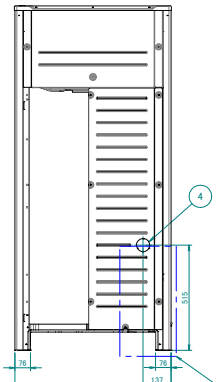


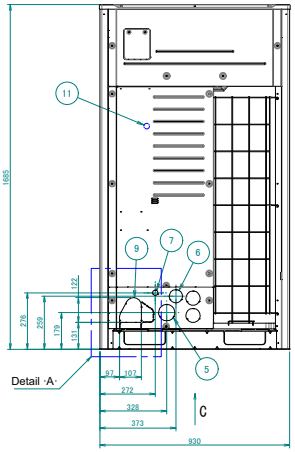
Pitch of foundation bolt holes

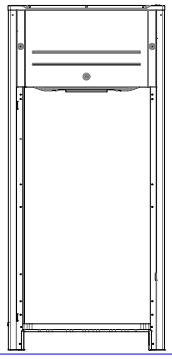


Pitch of foundation bolt holes









Model	AA	AB
RYYQ8-12U, RXYQ8-12U, RXYQQ8-12U, RXYTQ8U	–	–
REMQ5U, RYMQ8-12U, REYQ8-12U	246	240

Notes

1. Detail ·A· and detail ·B· indicate the dimensions after fixing the attached piping.
2. Items ·4 - 10:· Knockout hole.
3. Gas pipe

RYYQ8U, RYMQ8U, RXYQ8U, RXYQQ8U, RXYTQ8U : Ø ·19.1· brazing connection
RYYQ10U, RYMQ10U, RXYQ10U, RXYQQ10U : Ø ·22.2· brazing connection
REMQ5U, REYQ8-12U : Ø ·25.4· brazing connection
RYYQ12U, RYMQ12U, RXYQ12U, RXYQQ12U : Ø ·28.6· brazing connection

Liquid pipe

RYYQ8-10U, RYMQ8-10U, RXYQ8-10U, RXYQQ8-10U, REMQ5U, REYQ8-12U, RXYTQ8U : Ø ·9.5· brazing connection

RYYQ12U, RYMQ12U, RXYQ12U, RXYQQ12U : Ø ·12.7· brazing connection

Equalising pipe

RYMQ8-10U : Ø ·19.1· brazing connection

RYMQ12U : Ø ·22.2· brazing connection

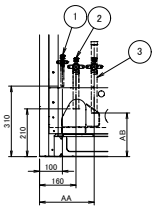
High pressure/low pressure gas pipe

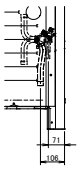
REMQ5U, REYQ8-12U : Ø ·19.1· brazing connection

No.	Part name	
11	Grounding terminal	
10	Pipe routing hole (bottom)	
9	Pipe routing hole (front)	Inside of the switch box (·M8·)
8	Power cord routing hole (bottom)	Ø65
7	Power cord routing hole (front)	Ø27
6	Power cord routing hole (front)	Ø65
5	Power cord routing hole (front)	Ø80
4	Power cord routing hole (side)	Ø65
3	Equalising pipe connection port High pressure/low pressure gas pipe	See note ·3·. See note ·3·.
2	Gas pipe connection port	See note ·3·.
1	Liquid pipe connection port	Remark

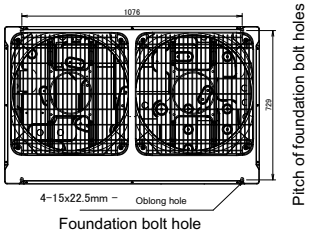
2D119001

REYQ14-20U
RXYQQ14-20U
RXYQ14-20U
RXYTQ10-16U
RYYQ14-20U
RYMQ14-20U

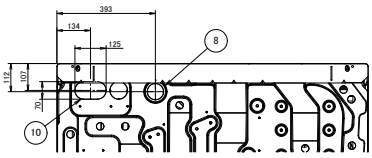


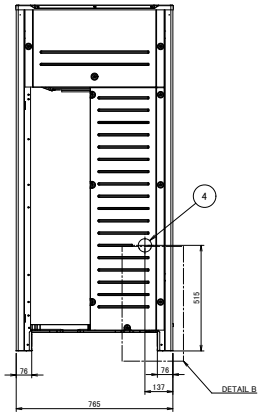


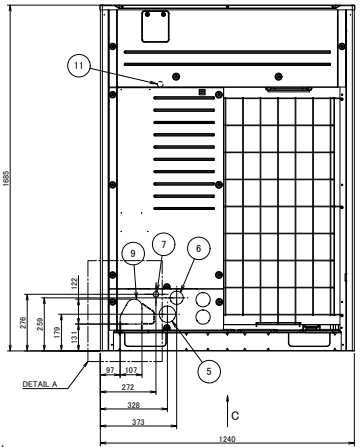
Pitch of foundation bolt holes

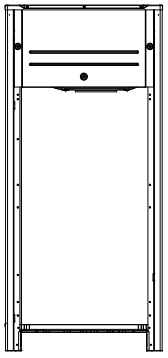


Pitch of foundation bolt holes









Model	AA	AB
RXYQ14-20U, RYYQ14-20U, RXYQQ14-20U, RXYTQ10-16U	–	–
RYMQ14-16U, REYQ14-20U	240	155
RYMQ18-20U	240	192

Notes

1. Detail A and detail B indicate the dimensions after fixing the attached piping. 1.
2. Items 4 - 10: Knockout hole.
3. Gas pipe

RXYTQ10U, REYQ14-20U : Ø 22.2 brazing connection / Ø 25.4 brazing connection

RYYQ14-20U, RYMQ14-20U RXYQ14-20U, RXYQQ14-20U, RXYTQ12-16U Liquid pipe : Ø 28.6 brazing connection

RXYTQ10U : Ø 9.5 brazing connection

RYYQ14-16U, RYMQ14-16U, RXYQ14-16U, RXYQQ14-16U, REYQ14-20U, RXYTQ12-16U : Ø 12.7 brazing connection / Ø 15.9 brazing connection

RYYQ18-20U, RYMQ18-20U, RXYQ18-20U, RXYQQ18-20U Equalising pipe

RYMQ14-16U : Ø 22.2 brazing connection

RYMQ18-20U : Ø 28.6 brazing connection

High pressure/low pressure gas pipe

REYQ14-20U : Ø 22.2 brazing connection

No.	Part name	Remark
11	Grounding terminal	
10	Pipe routing hole (bottom)	
9	Pipe routing hole (front)	Inside of the switch box (M8)
8	Power cord routing hole (bottom)	Ø65
7	Power cord routing hole (front)	Ø27
6	Power cord routing hole (front)	Ø65
5	Power cord routing hole (front)	Ø80
4	Power cord routing hole (side)	Ø65
3	Equalising pipe connection port High pressure/low pressure gas pipe	See note 3.
2	Gas pipe connection port	See note 3.
1	Liquid pipe connection port	See note 3.

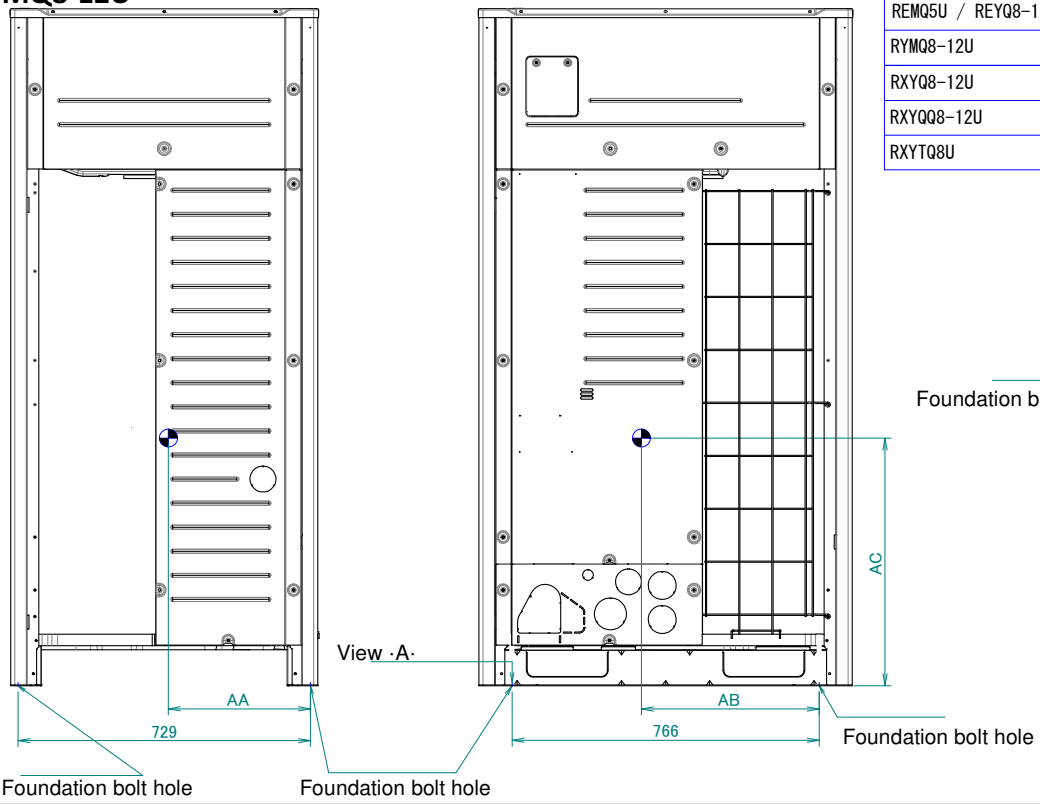
2D119091

7 Centre of gravity

7 - 1 Centre of Gravity

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			



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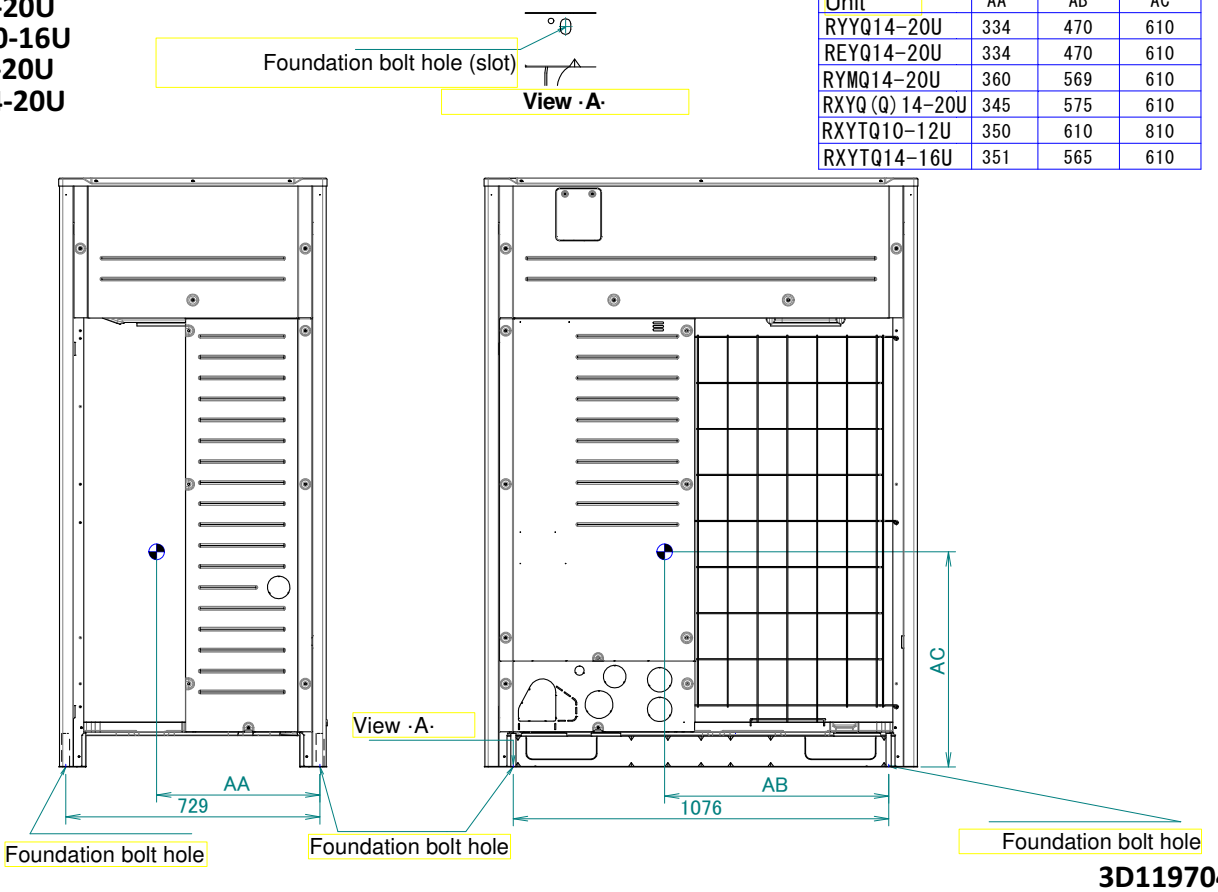
RXYQQ14-20U
RXYQ14-20U
RXYTQ10-16U
RYYQ14-20U
RYMQ14-20U

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

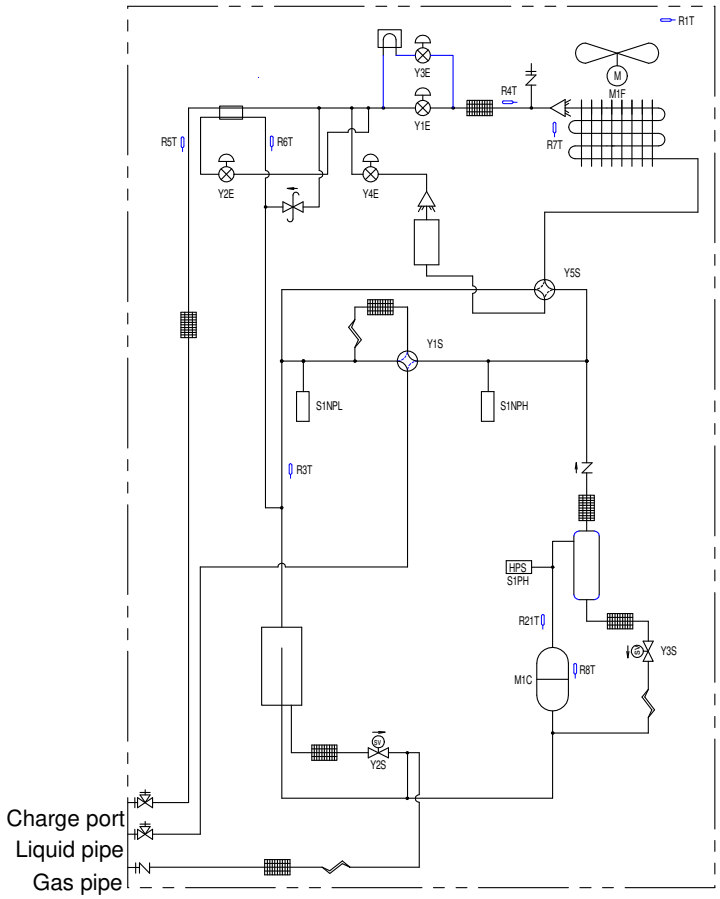


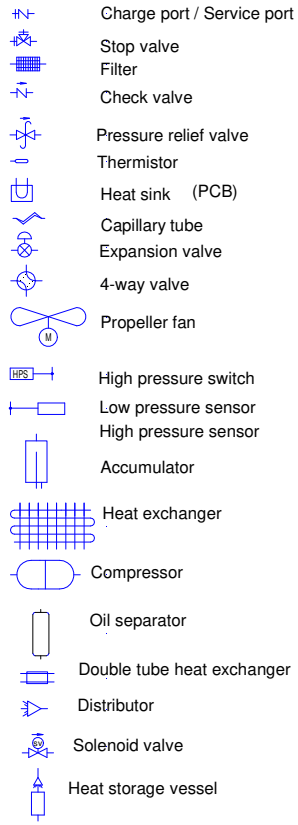
3D119704

8 Piping diagrams

8 - 1 Piping Diagrams

RYYQ8-12U





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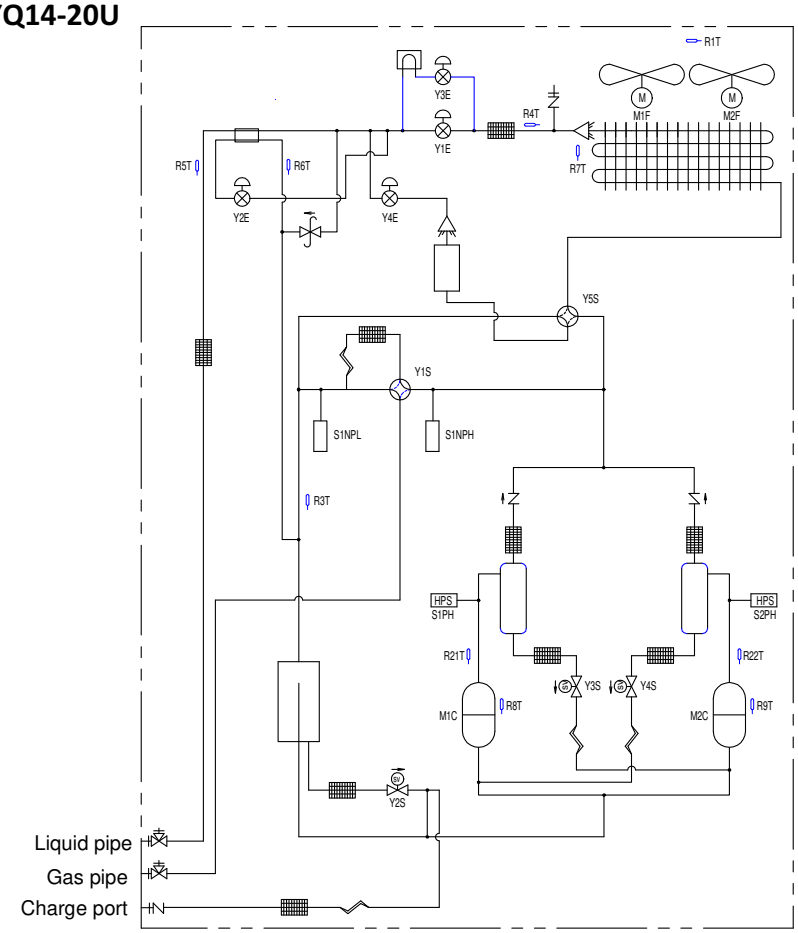
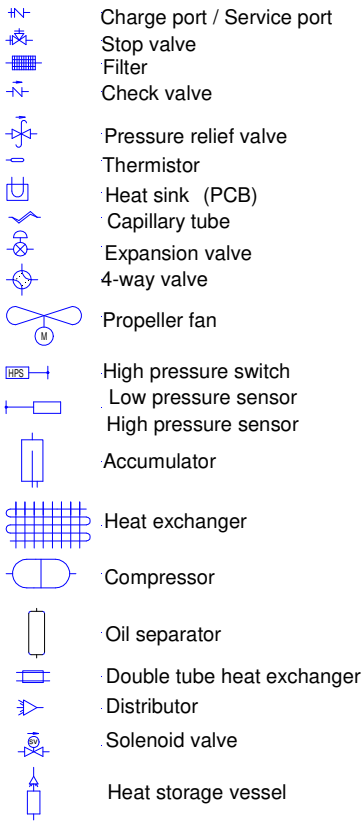
RYYQ14-20U



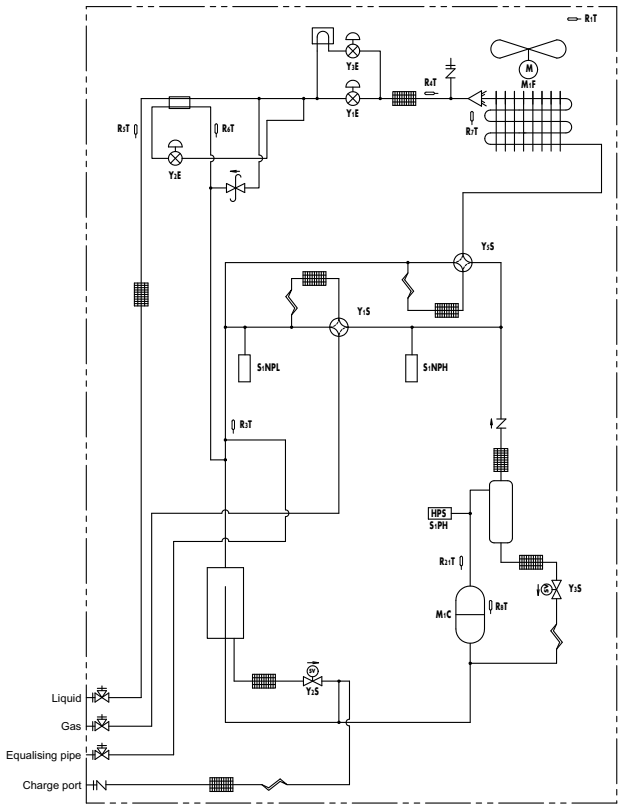


3D118184

8 Piping diagrams

8 - 1 Piping Diagrams

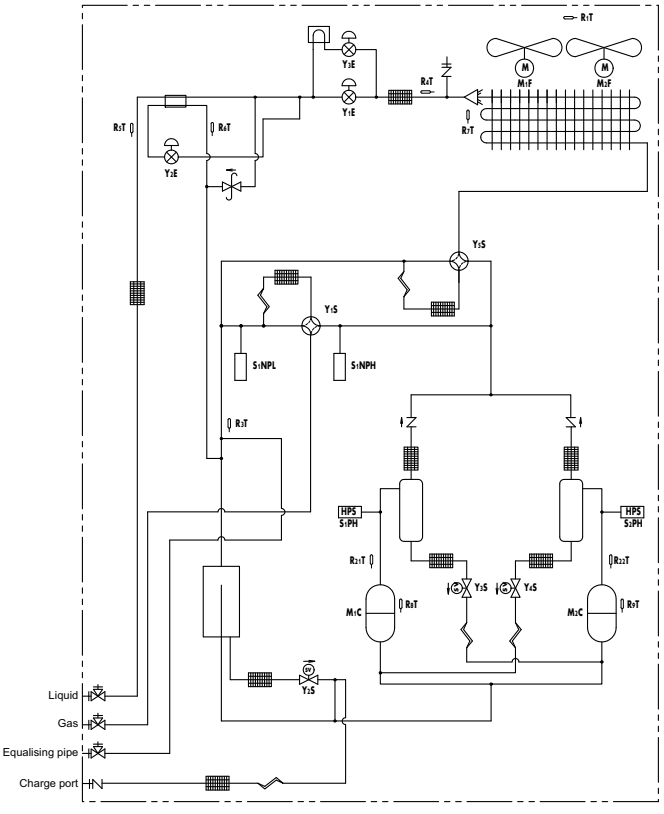
RYMQ8-12U



- Charge port / Service port
- Stop valve
- Filter
- Check valve
- Pressure relief valve
- Thermistor
- Heat sink (PCB)
- Capillary tube
- Expansion valve
- 4-way valve
- Propeller fan
- High pressure switch
- Low pressure sensor
- High pressure sensor
- Accumulator
- Heat exchanger
- Compressor
- Oil separator
- Double tube heat exchanger
- Distributor
- Solenoid valve

3D118185

RYMQ14-20U



- Charge port / Service port
- Stop valve
- Filter
- Check valve
- Pressure relief valve
- Thermistor
- Heat sink (PCB)
- Capillary tube
- Expansion valve
- 4-way valve
- Propeller fan
- High pressure switch
- Low pressure sensor
- High pressure sensor
- Accumulator
- Heat exchanger
- Compressor
- Oil separator
- Double tube heat exchanger
- Distributor
- Solenoid valve

3D118186

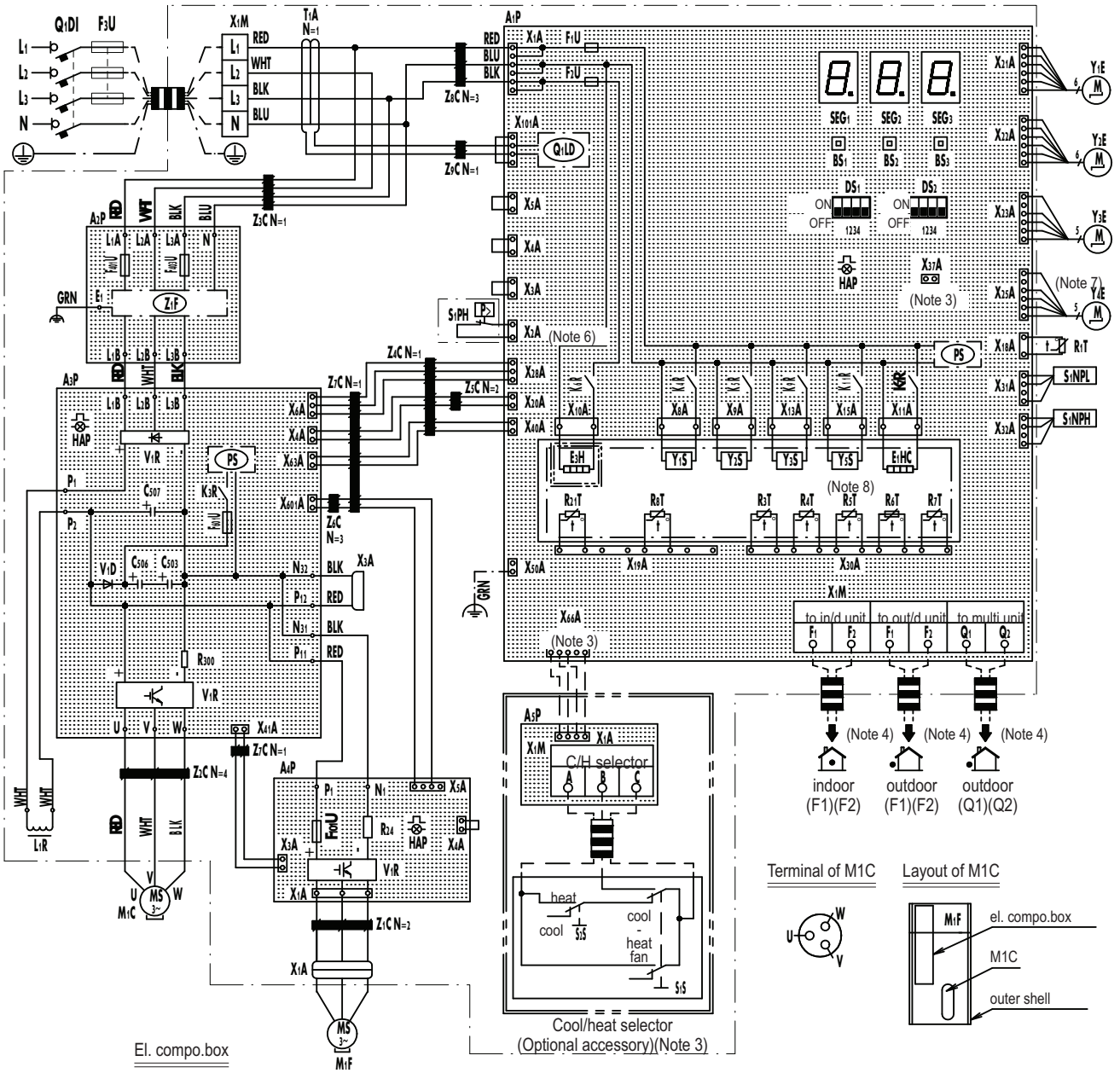
9 Wiring diagrams

9 - 1 Wiring Diagrams - Three Phase

RXYQ8-12U
RXYTQ8UYF
RYYQ8-12U
RYMQ8-12U

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

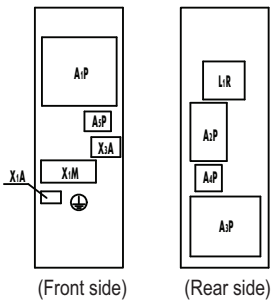
Wiring diagram



Terminal of M1C

Layout of M1C

El. compo.box



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9 Wiring diagrams

9 - 1 Wiring Diagrams - Three Phase

RXYQ8-12U
RXYTQ8UYF
RYYQ8-12U
RYMQ8-12U

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

NOTES

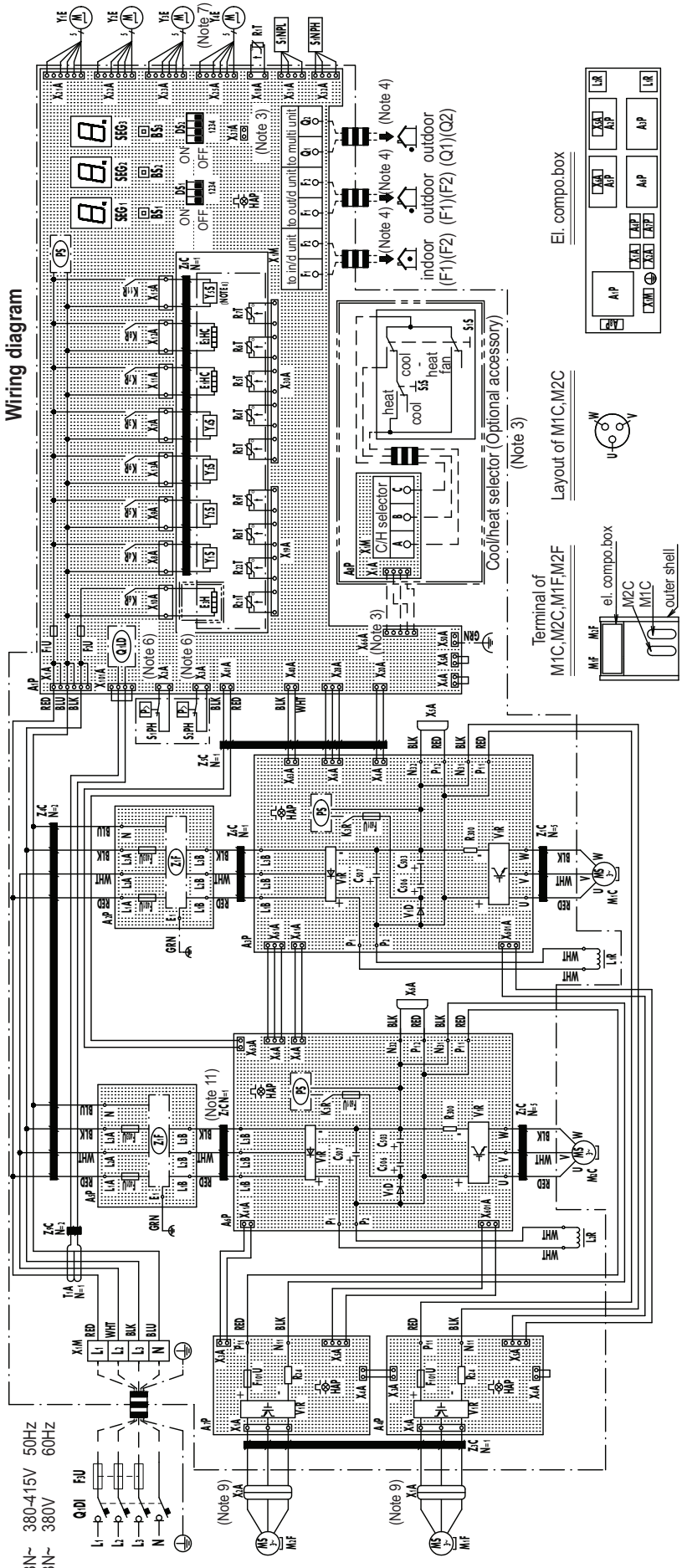
1. This wiring diagram applies only to the outdoor unit.
2. :field wiring, : terminal block, : connector, : terminal, : protective earth (screw), : functional earth, : earth wiring, : field supply, : PCB, : switch box, : option
3. When using the optional adapter, refer to the installation manual of the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

2D117534

9 Wiring diagrams

9 - 1 Wiring Diagrams - Three Phase

RXYQ14-20U
RXYTQ14-16U
RYYQ14-20U
RYMQ14-20U



9 Wiring diagrams

9 - 1 Wiring Diagrams - Three Phase

RXYQ14-20U
RXYTQ14-16U
RYYQ14-20U
RYMQ14-20U

A1P	Printed Circuit Board (Main)
A2P,A5P	Printed Circuit Board (Noise Filter)
A3P,A6P	Printed Circuit Board (Inv)
A4P,A7P	Printed Circuit Board (Fan)
A8P	Printed Circuit Board (ABC I/P)
C503,C506,C507 (A3P,A6P)	Capacitor
DS1,DS2 (A1P)	DIP Switch
E1HC,E2HC	Crankcase Heater
E3H	Drainpan Heater (Option)
F1U,F2U (A1P)	Fuse (T,3,15A,250V)
F3U	Field Fuse
F101U (A4P,A7P)	Fuse
F401U,F403U (A2P,A5P)	Fuse
F601U (A3P,A6P)	Fuse
HAP (A1P,A3P,A4P,A6P,A7P)	Pilotlamp (Service Monitor-Green)
K3R (A3P,A6P)	Magnetic Relay
K3R (A1P)	Magnetic Relay (Y4S)
K4R (A1P)	Magnetic Relay (Y1S)
K5R (A1P)	Magnetic Relay (Y2S)
K6R (A1P)	Magnetic Relay (E3H)
K7R (A1P)	Magnetic Relay (E1HC)
K8R (A1P)	Magnetic Relay (E2HC)
K9R (A1P)	Magnetic Relay (Y3S)
K11R (A1P)	Magnetic Relay (Y5S)
L1R,L2R	Reactor
M1C,M2C	Motor (Compressor)
M1F,M2F	Motor (Fan)
PS (A1P,A3P,A6P)	Switching Power Supply
Q1DI	Field Earth Leakage Breaker
Q1LD (A1P)	Field Earth Current Detector
R24 (A4P,A7P)	Resistor (Current Sensor)
R300 (A3P,A6P)	Resistor (Current Sensor)
R1T	Thermistor (Air)
R3T	Thermistor (Accumulator)
R4T	Thermistor (Heat Exc,Liq,Pipe)
R5T	Thermistor (Subcool,Liq,Pipe)
R6T	Thermistor (Heat Exc,Gas Pipe)
R7T	Thermistor (Heat Exc,Deicer)
R8T,R9T	Thermistor (M1C ,M2C body)
R21T,R22T	Thermistor (M1C ,M2C discharge)
S1NPH	Pressure Sensor (High)
S1NPL	Pressure Sensor (Low)
S1PH,S2PH	Pressure Switch (Disch)
SEG1~SEG3 (A1P)	7-Segment Display
T1A	Current Sensor
V1D (A3P,A6P)	Diode
V1R (A3P,A4P,A6P,A7P)	Power Module
X*A	Connector
X1M (A1P)	Terminal Block (Control)
X1M (A8P)	Terminal Block (Power Supply)
Y1E	Electronic Expansion Valve(Main)
Y2E	Electronic Expansion Valve (Injection)
Y3E	Electronic Expansion Valve (Refrigerant Jacket)
Y4E	Electronic Expansion Valve (Storage Vessel) (Note 7)
Y1S	Solenoid Valve (Main)
Y2S	Solenoid Valve (Accumulator Oil Return)
Y3S	Solenoid Valve (Oil1)
Y3S	Solenoid Valve (Oil2)
Y5S	Solenoid Valve (Sub) (Note 8)
Z*C	Noise Filter (Ferrite Core)
Z*F (A2P,A5P)	Noise Filter (With Surge Absorber)
Connector For Optional Accessories	
X10A	Connector (Drainpan Heater)
X37A	Connector (Power Adapter)
X66A	Connector (Remote Switching Cool/Heat Selector)

NOTES

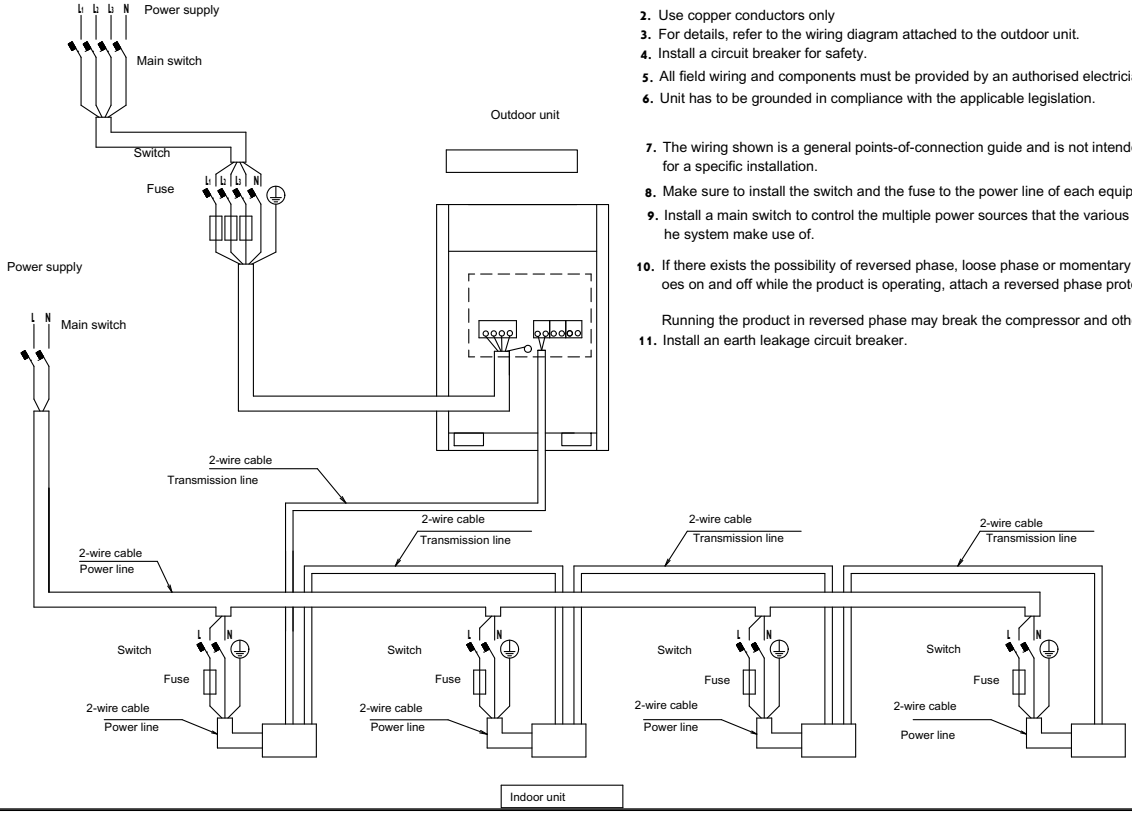
1. This wiring diagram applies only to the outdoor unit.
2. : field wiring, : terminal block, : connector, : terminal, : protective earth (screw), : functional earth, : earth wiring, : field supply, : PCB, : switch box, : option
3. When using the optional adapter, refer to the installation manual of 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).
7. Only for RYYQ model.
8. Only for RYYQ/RYMQ model.
9. Connector x1a (m1f) is red, connector x2a (m2f) is white.
10. Colors: BLK: Black, RED: Red, BLU: Blue, WHT: White, GRN: Green.
11. Only for 14,16 class

2D117536B

10 External connection diagrams

10 - 1 External Connection Diagrams

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



Notes

1. All wiring, components and materials to be procured on-site must comply with the applicable le gislation.
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 equipement.
9. Install a main switch to control the multiple power sources that the various components of t he system make use of.
10. If there exists the possibility of reversed phase, loose phase or momentary blackout, or if the power g oes 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.

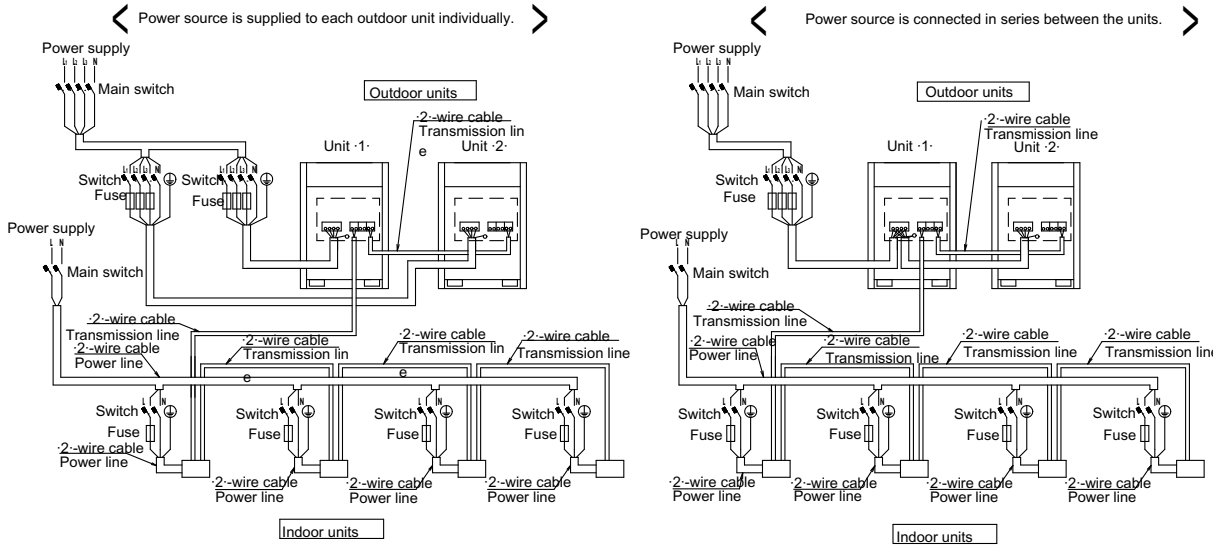
3D119317

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 equipement.
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

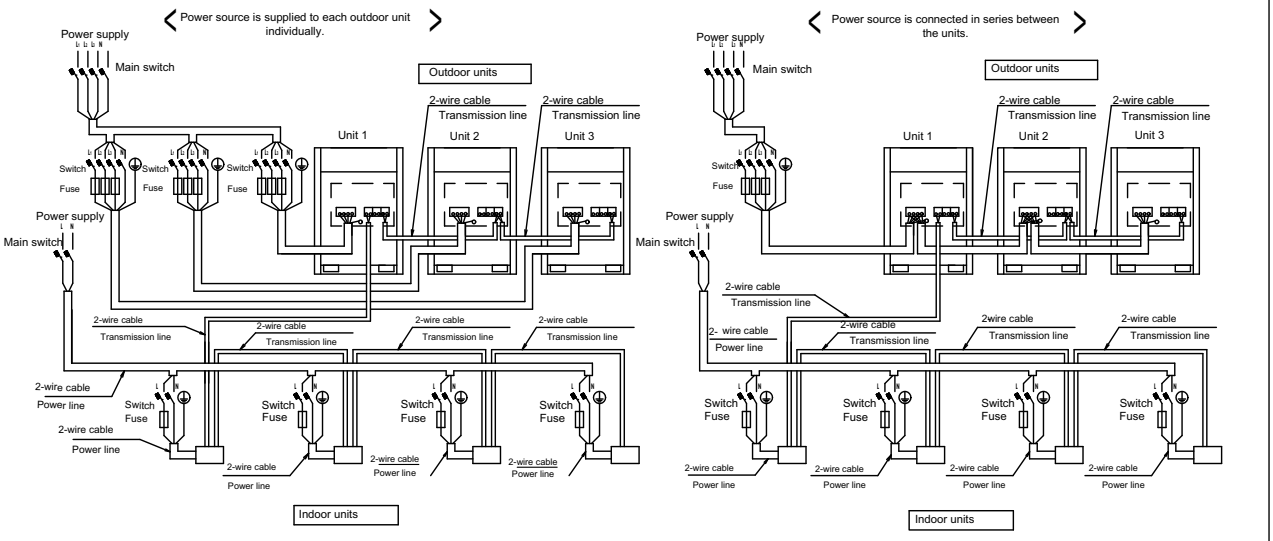
10 External connection diagrams

10 - 1 External Connection Diagrams

RXYQQ8-20U
RXYQ8-20U
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 equipement.
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.

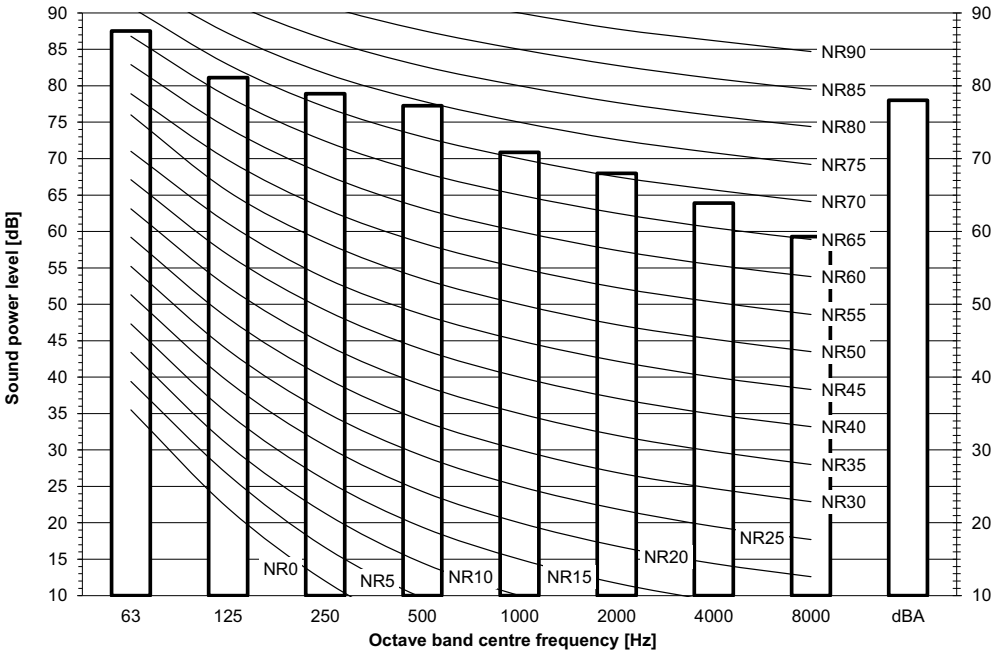


3D119200

11 Sound data

11 - 1 Sound Power Spectrum

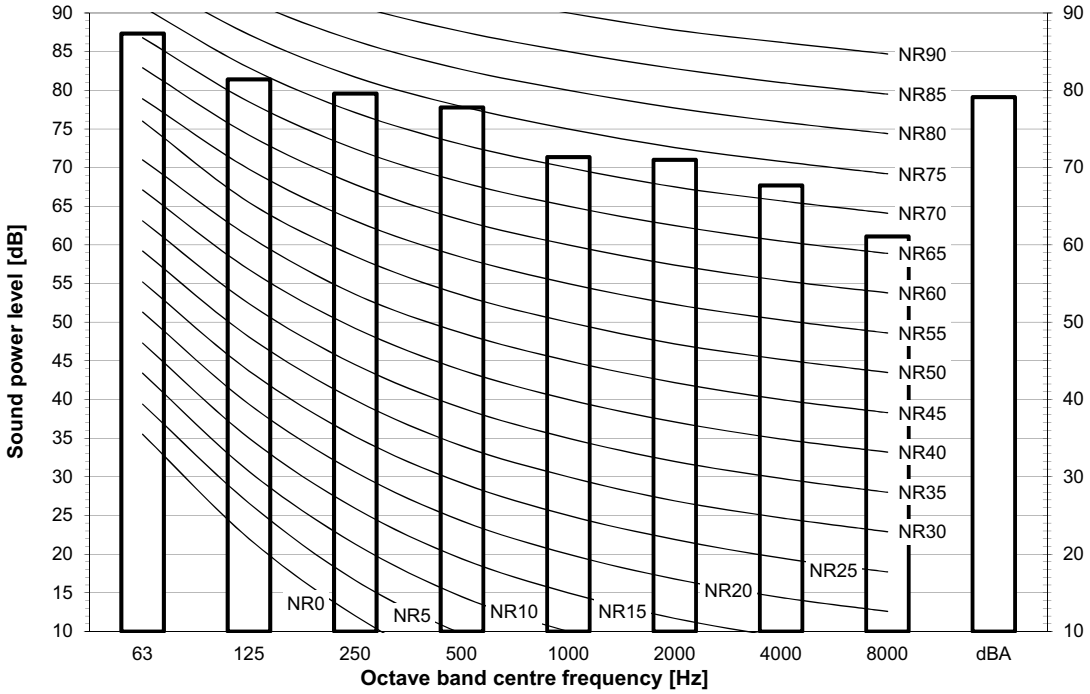
REMQ5U
REYQ8U
RXYQQ8U
RXYQ8U
RXYTQ8UYF
RYYQ8U
RYMQ8U



Notes
dBA = A-weighted sound power level (A scale according to IEC).
Reference acoustic intensity 0dB = 10E-6µW/m²
Measured according to ISO 3744

3D119528

REYQ10U
RXYQQ10U
RXYQ10U
RYYQ10U
RYMQ10U



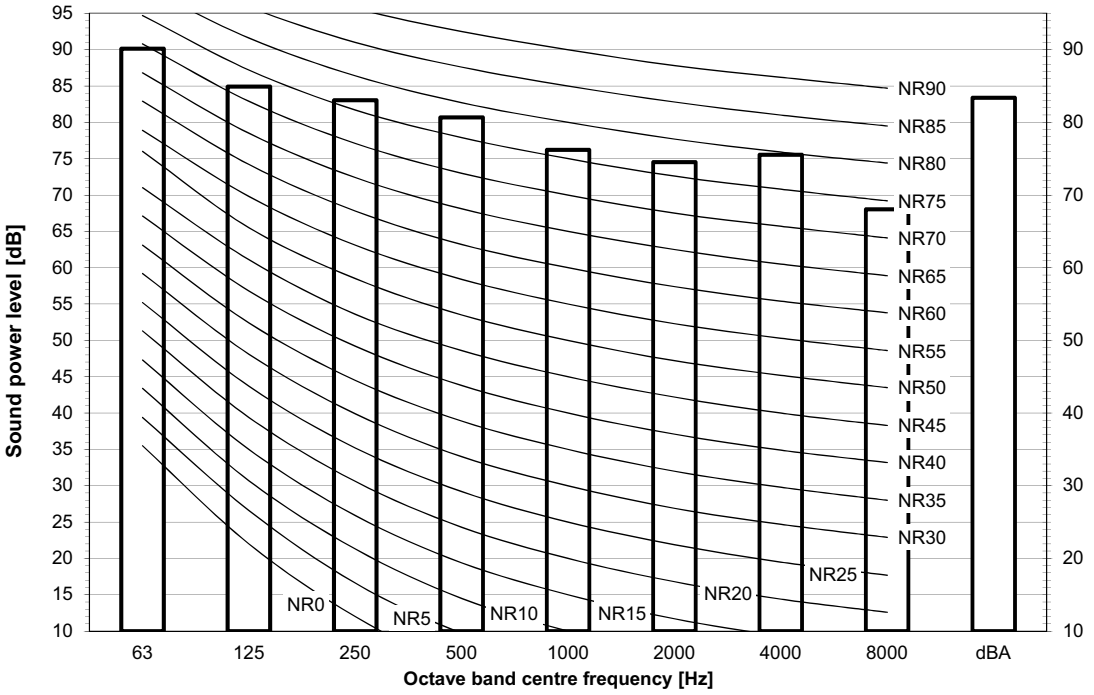
Notes
dBA = A-weighted sound power level (A scale according to IEC).
Reference acoustic intensity 0dB = 10E-6µW/m²
Measured according to ISO 3744

3D119529

11 Sound data

11 - 1 Sound Power Spectrum

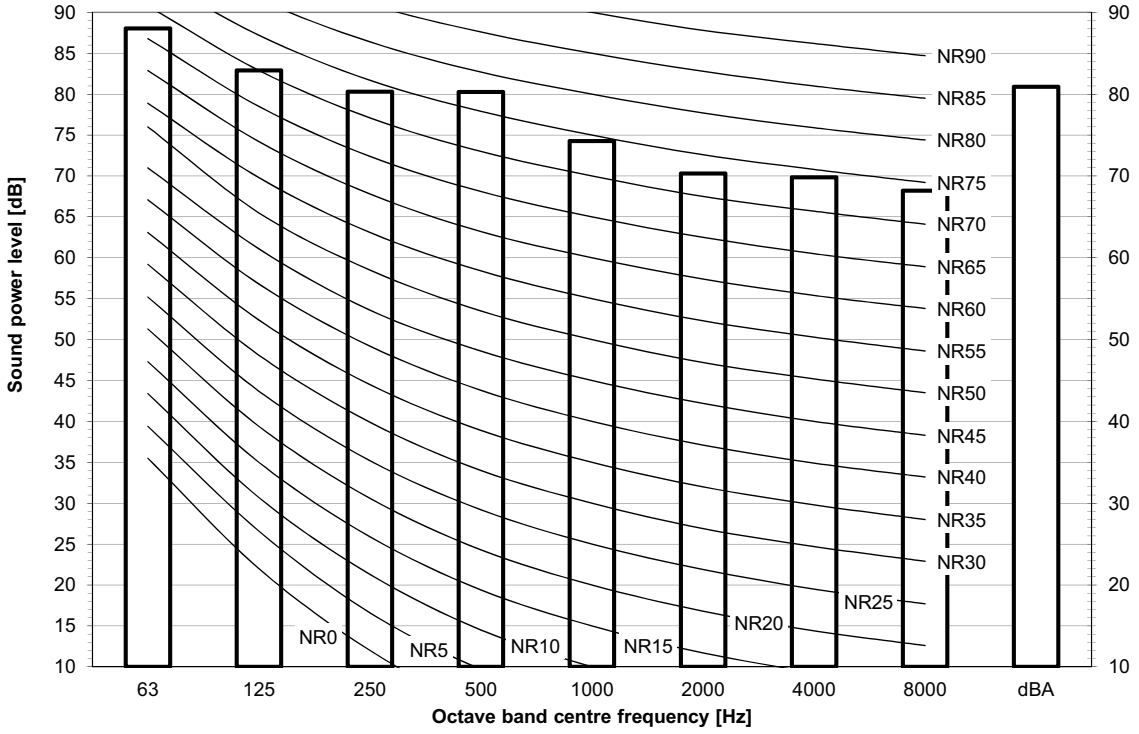
REYQ12U
RXYQQ12U
RXYQ12U
RYYQ12U
RYMQ12U



Notes
dBA = A-weighted sound power level (A scale according to IEC).
Reference acoustic intensity 0dB = 10E-6μW/m²
Measured according to ISO 3744

3D119530

REYQ14U
RXYQQ14U
RXYQ14U
RYYQ14U
RYMQ14U



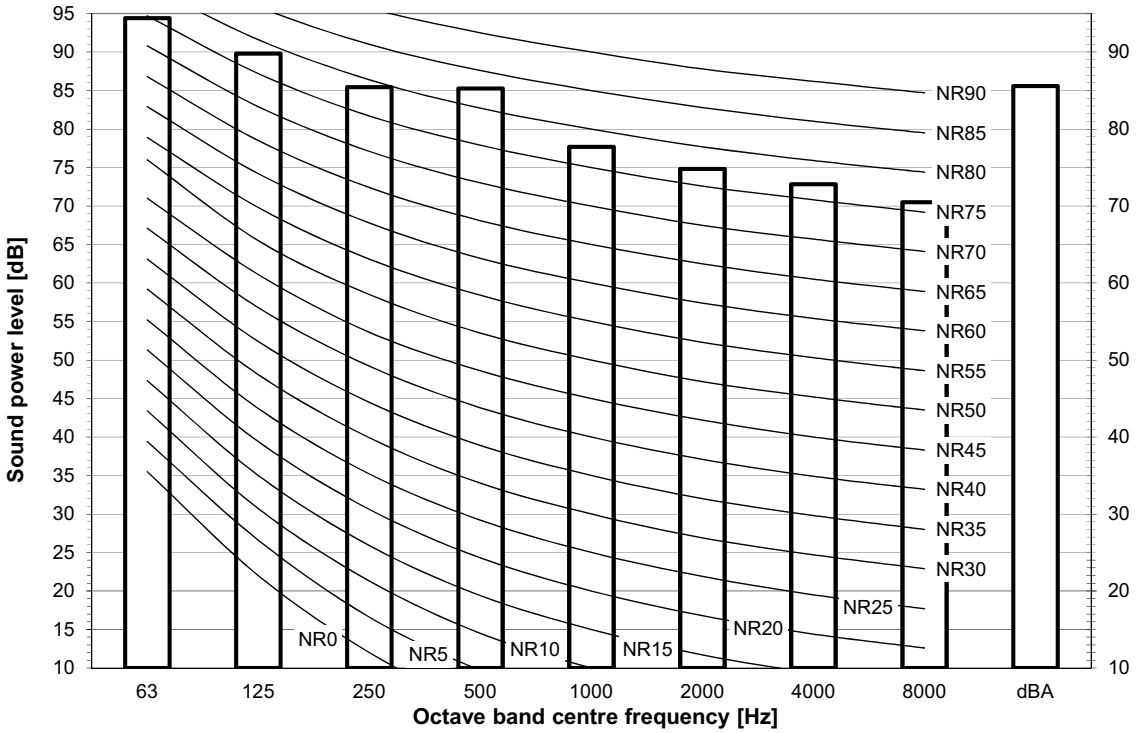
Notes
dBA = A-weighted sound power level (A scale according to IEC).
Reference acoustic intensity 0dB = 10E-6μW/m²
Measured according to ISO 3744

3D119531

11 Sound data

11 - 1 Sound Power Spectrum

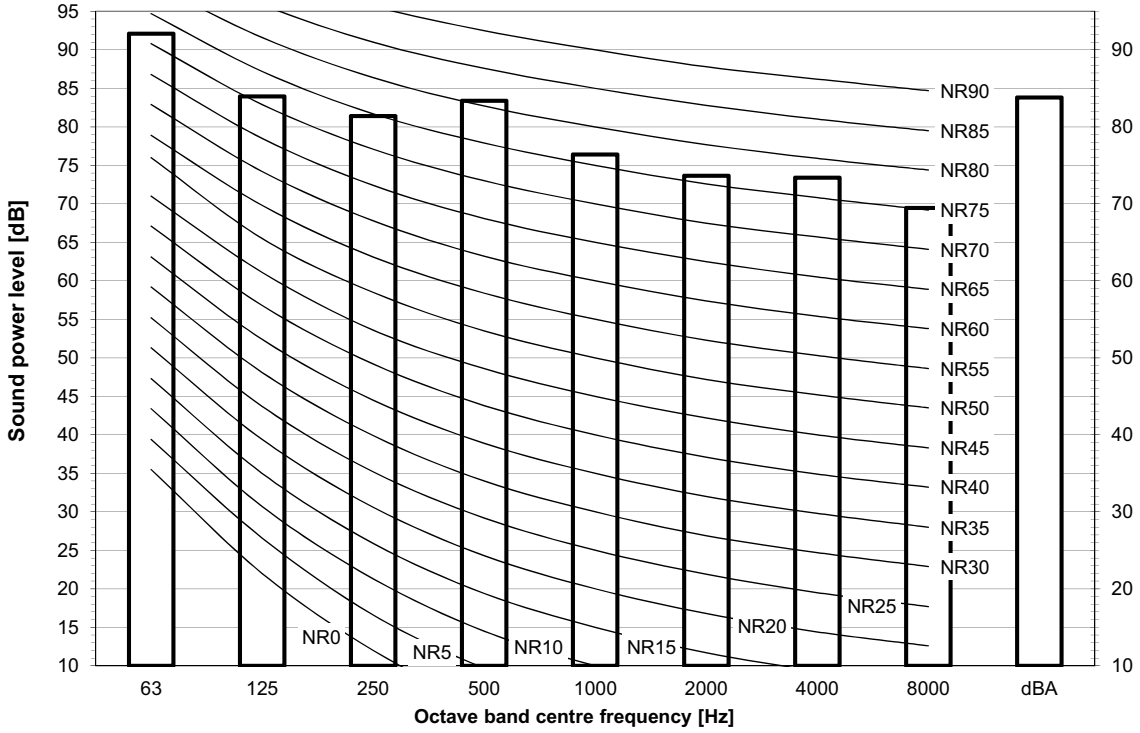
REYQ16U
RXYQQ16U
RXYQ16U
RYYQ16U
RYMQ16U



Notes
dBA = A-weighted sound power level (A scale according to IEC).
Reference acoustic intensity 0dB = 10E-6µW/m²
Measured according to ISO 3744

3D119532

REYQ18U
RXYQQ18U
RXYQ18U
RYYQ18U
RYMQ18U



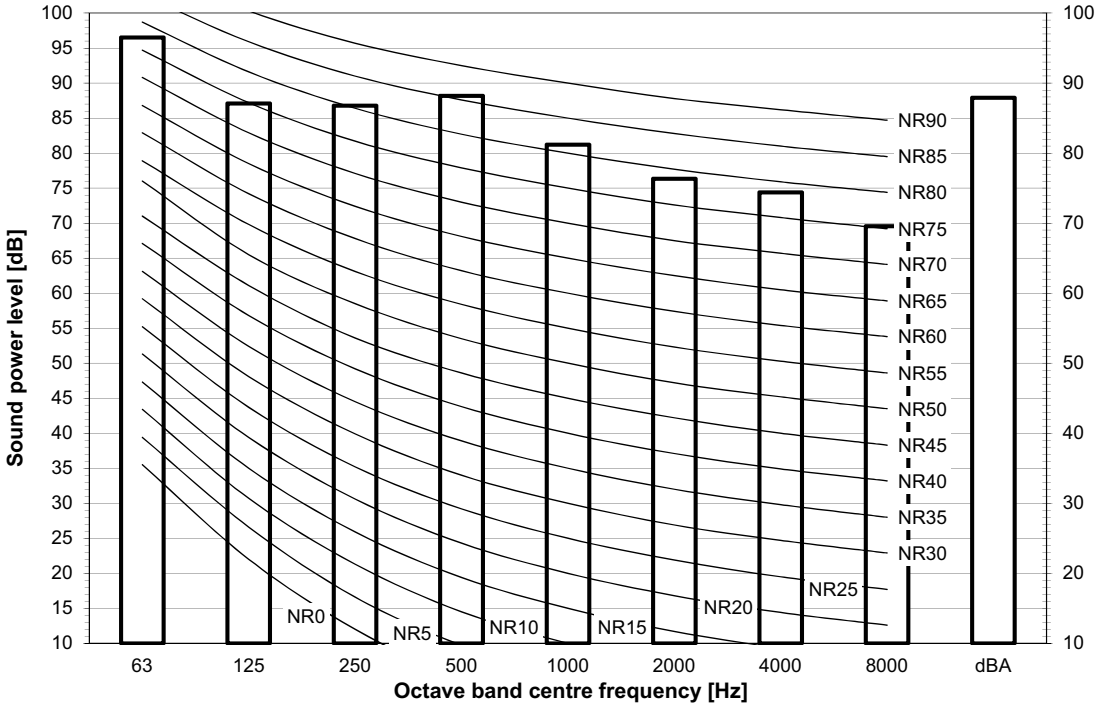
Notes
dBA = A-weighted sound power level (A scale according to IEC).
Reference acoustic intensity 0dB = 10E-6µW/m²
Measured according to ISO 3744

3D119533

11 Sound data

11 - 1 Sound Power Spectrum

REYQ20U
RXYQQ20U
RXYQ20U
RYYQ20U
RYMQ20U



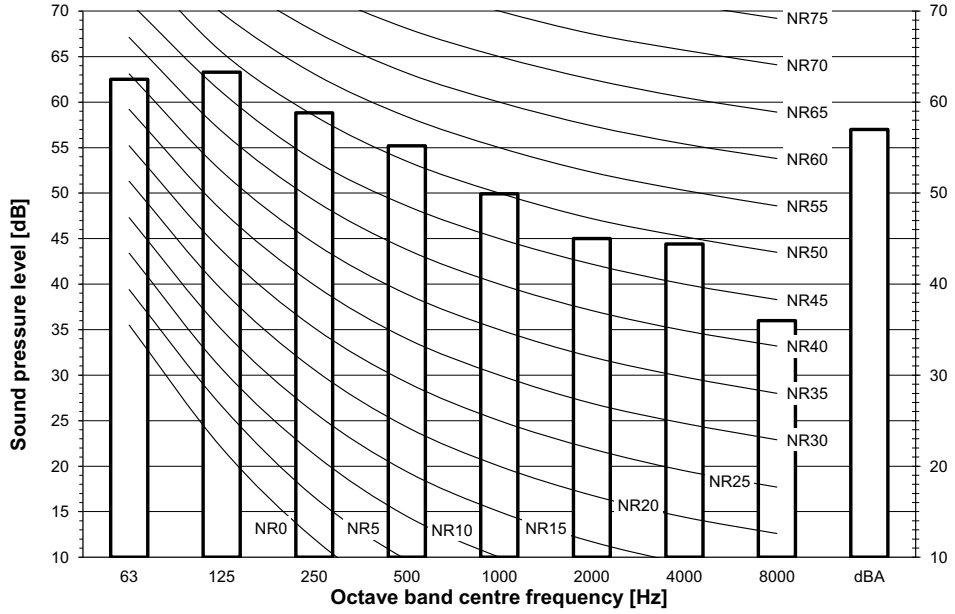
Notes
dBA = A-weighted sound power level (A scale according to IEC).
Reference acoustic intensity 0dB = 10E-6µW/m²
Measured according to ISO 3744

3D119534

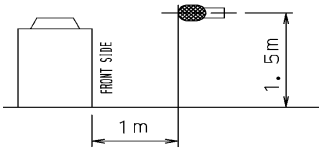
11 Sound data

11 - 2 Sound Pressure Spectrum

REMQ5U
REYQ8U
RXYQQ8U
RXYQ8U
RXYTQ8UYF
RYYQ8U
RYMQ8U

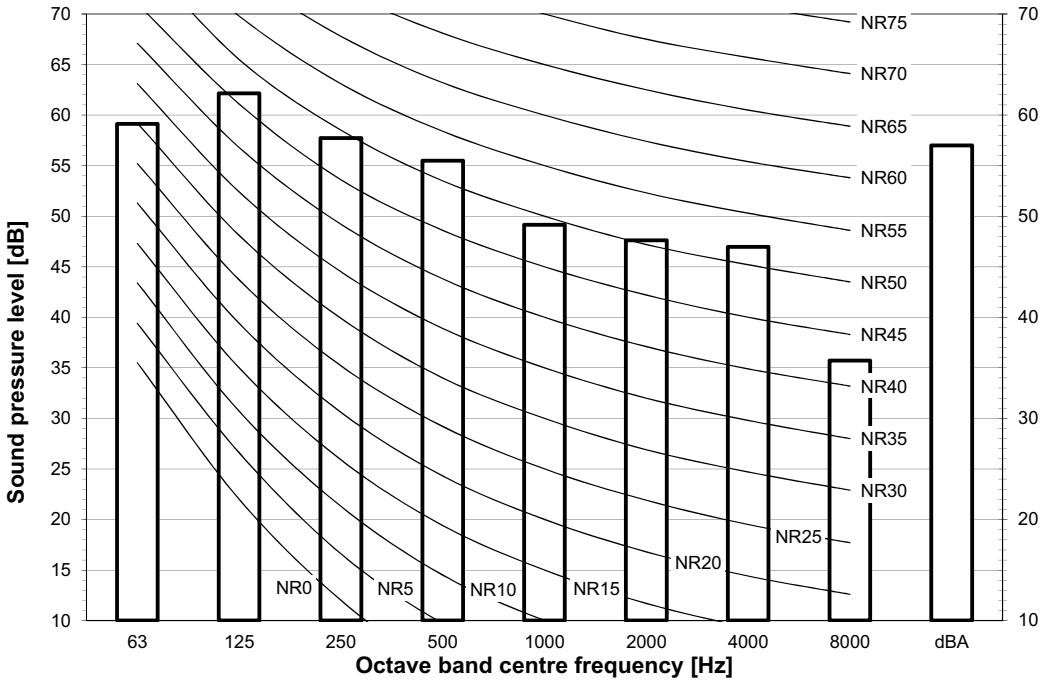


Notes
Data is valid at free field condition.
Data is valid at nominal operation condition.
dBA = A-weighted sound pressure level (A scale according to IEC).
Reference acoustic pressure 0 dB = 20 µPa

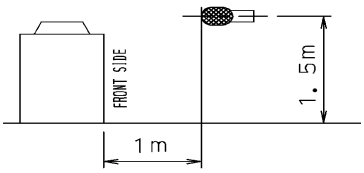


3D119521

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 µPa

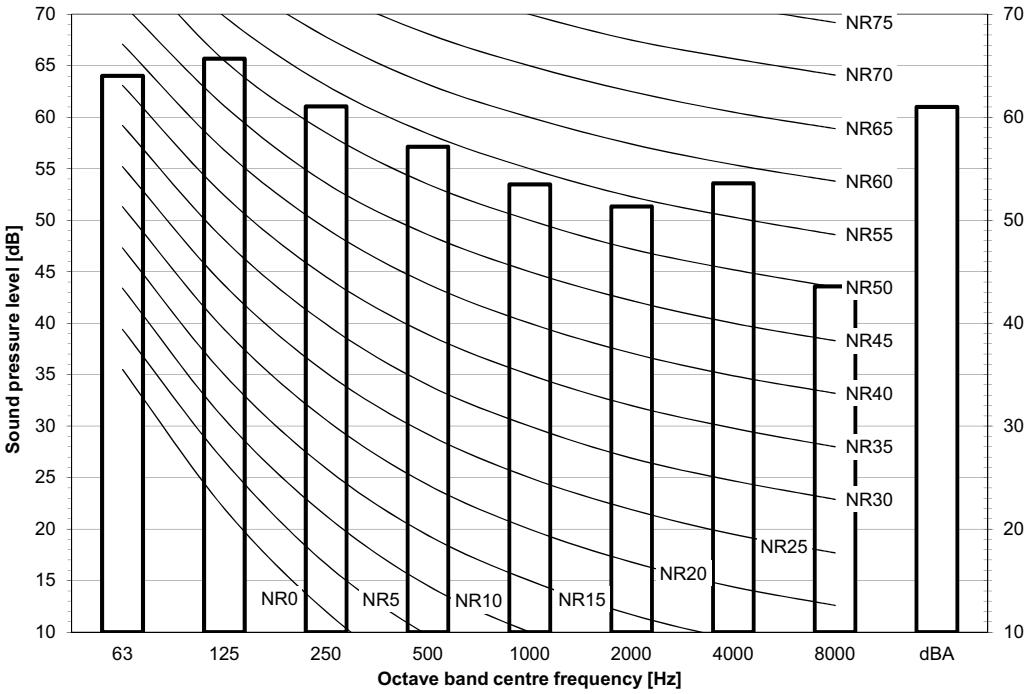


3D119522

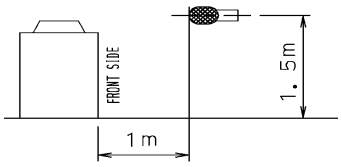
11 Sound data

11 - 2 Sound Pressure Spectrum

REYQ12U
RXYQQ12U
RXYQ12U
RYYQ12U
RYMQ12U

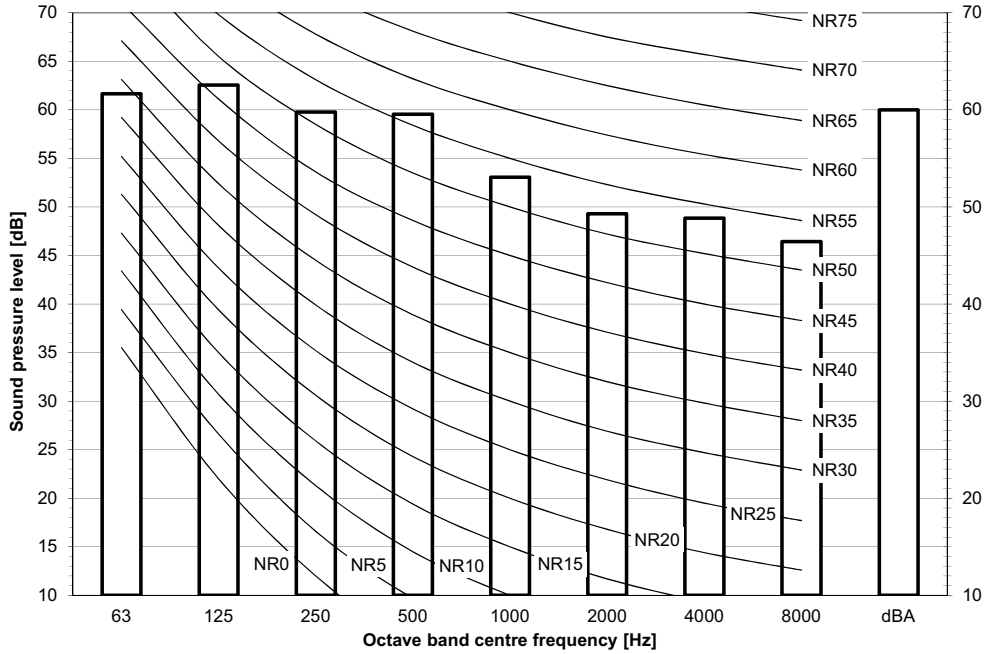


Notes
Data is valid at free field condition.
Data is valid at nominal operation condition.
dBA = A-weighted sound pressure level (A scale according to IEC).
Reference acoustic pressure 0 dB = 20 µPa

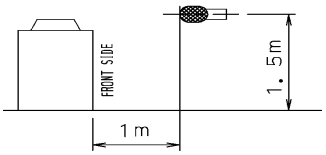


3D119523

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

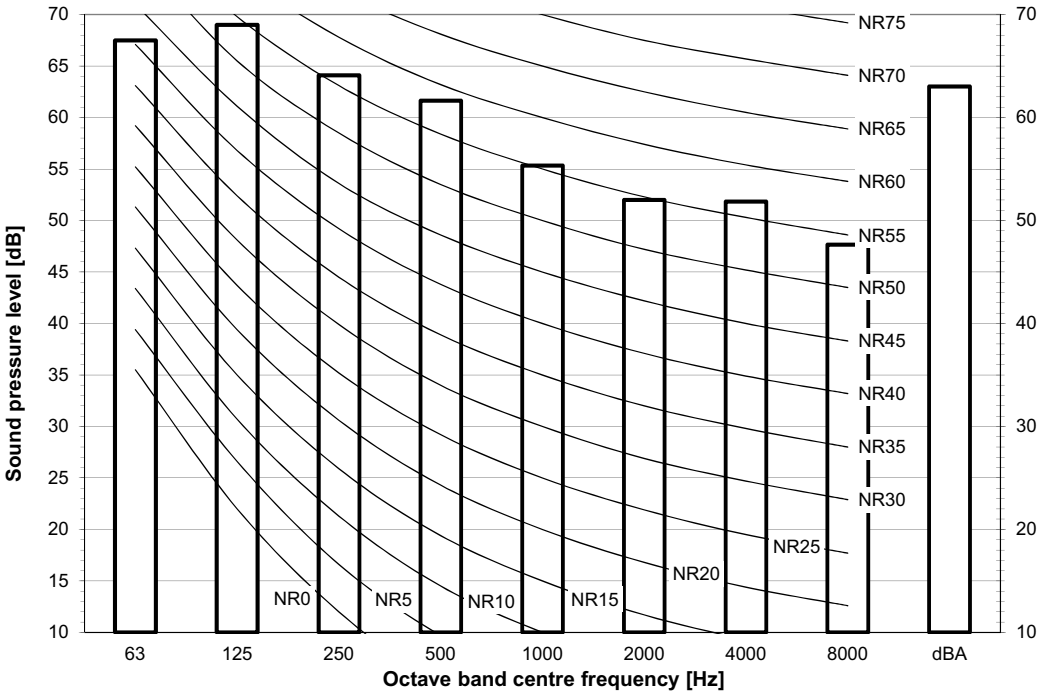


3D119524

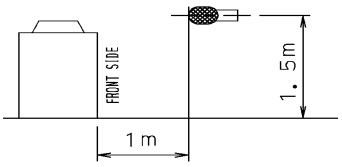
11 Sound data

11 - 2 Sound Pressure Spectrum

REYQ16U
RXYQQ16U
RXYQ16U
RYYQ16U
RYMQ16U

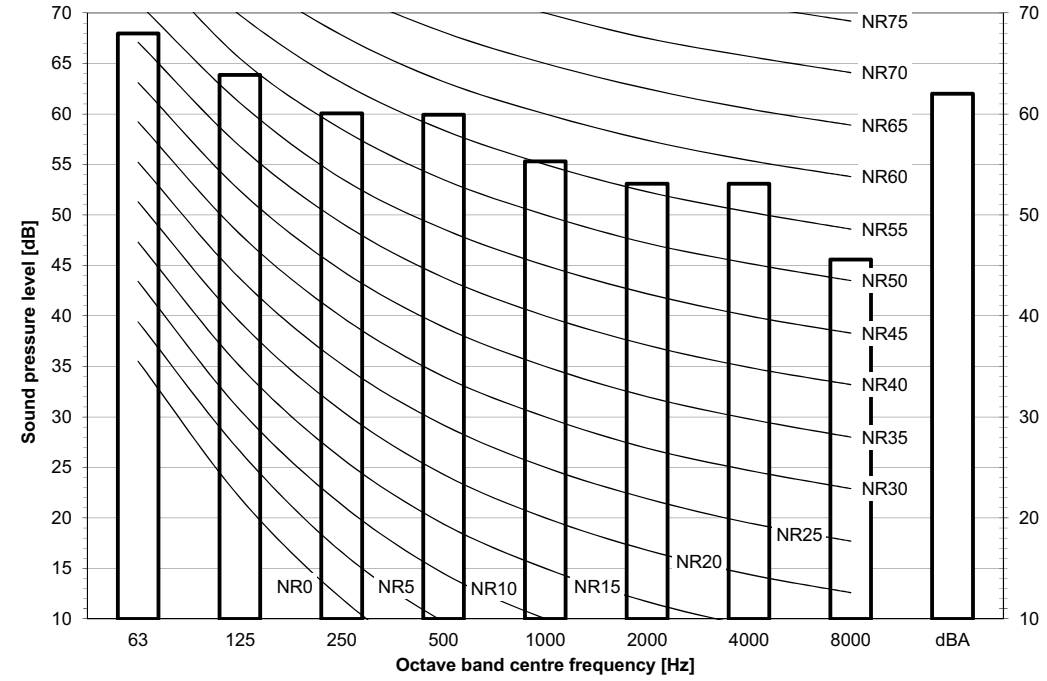


Notes
Data is valid at free field condition.
Data is valid at nominal operation condition.
dBA = A-weighted sound pressure level (A scale according to IEC).
Reference acoustic pressure 0 dB = 20 µPa

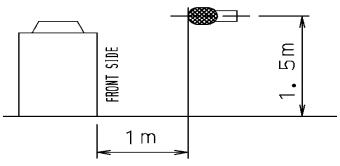


3D119525

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 µPa

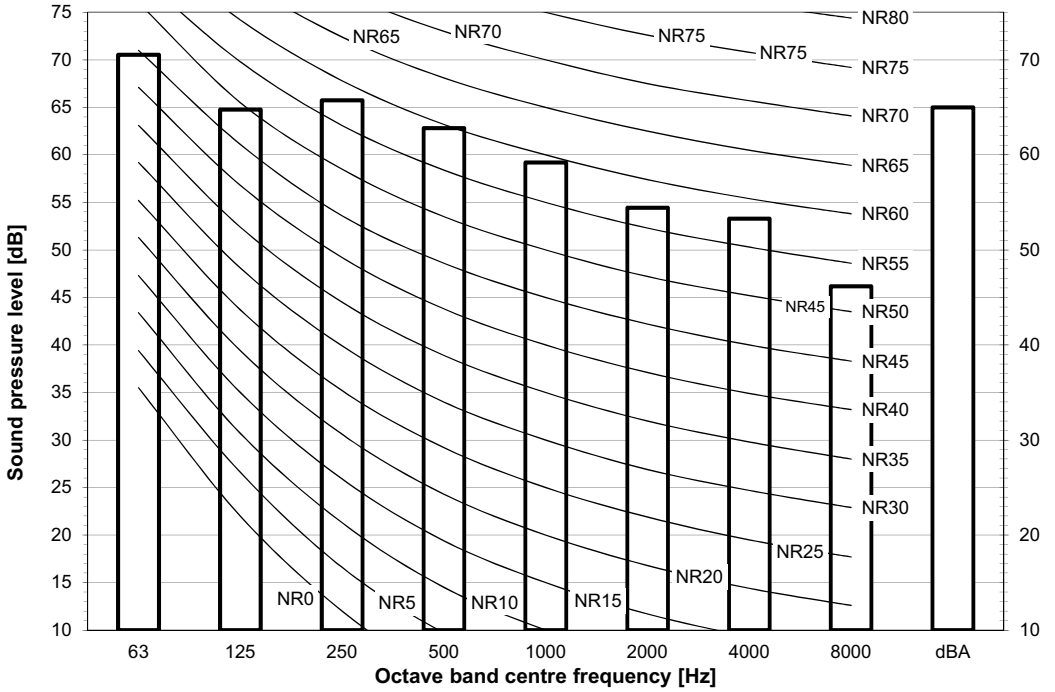


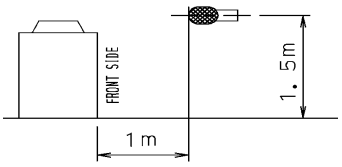
3D119526

11 Sound data

11 - 2 Sound Pressure Spectrum

REYQ20U
RXYQQ20U
RXYQ20U
RYYQ20U
RYMQ20U





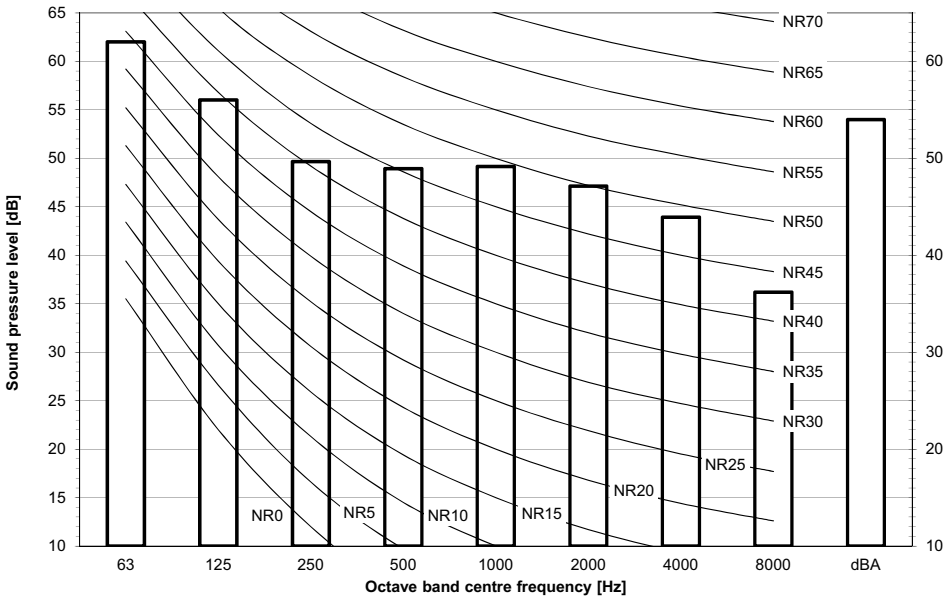
Notes
Data is valid at free field condition.
Data is valid at nominal operation condition.
dBA = A-weighted sound pressure level (A scale according to IEC).
Reference acoustic pressure 0 dB = 20 µPa

3D119527

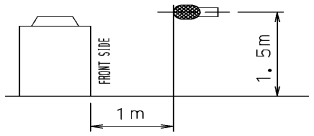
11 Sound data

11 - 3 Sound Pressure Spectrum Quiet Mode

REMQ5U
REYQ8-12U
RXYQQ8-12U
RXYQ8-12U
RXYTQ8UYF
RYY8-12U
RYMQ8-12U

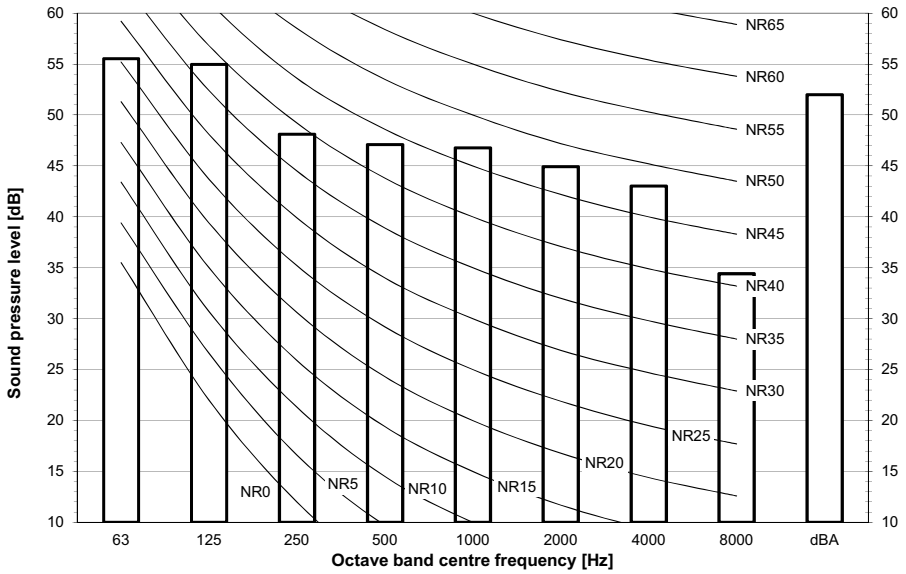


Notes
Data is valid at free field condition.
Data is valid at nominal operation condition.
dBA = A-weighted sound pressure level (A scale according to IEC).
Reference acoustic pressure 0 dB = 20 µPa
Data is valid under the following conditions
Cooling operation
Outdoor Ta: 35°C
Full load (maximum fan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

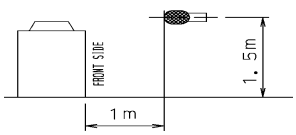


3D119535

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 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)

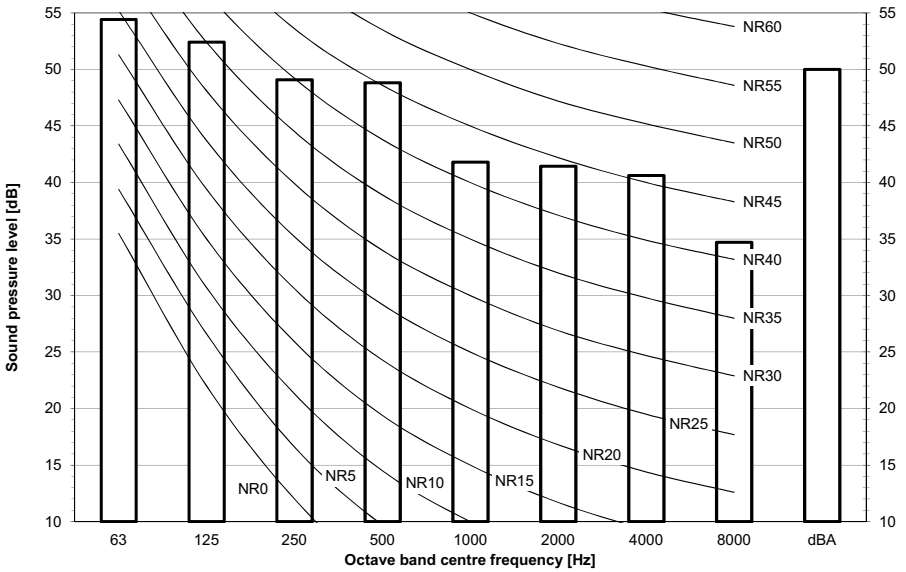


3D119536

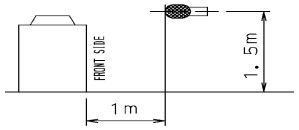
11 Sound data

11 - 3 Sound Pressure Spectrum Quiet Mode

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

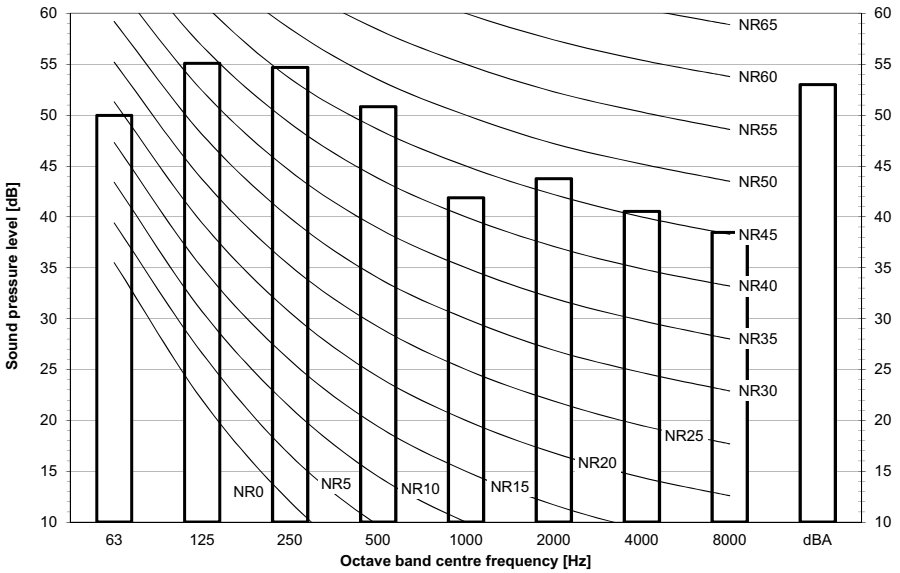


Notes
Data is valid at free field condition.
Data is valid at nominal operation condition.
dBA = A-weighted sound pressure level (A scale according to IEC).
Reference acoustic pressure 0 dB = 20 µPa
Data is valid under the following conditions
Cooling operation
Outdoor Ta: 35°C
Full load (maximum fan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

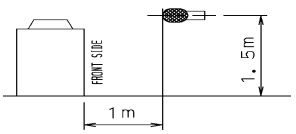


3D119537

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 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)

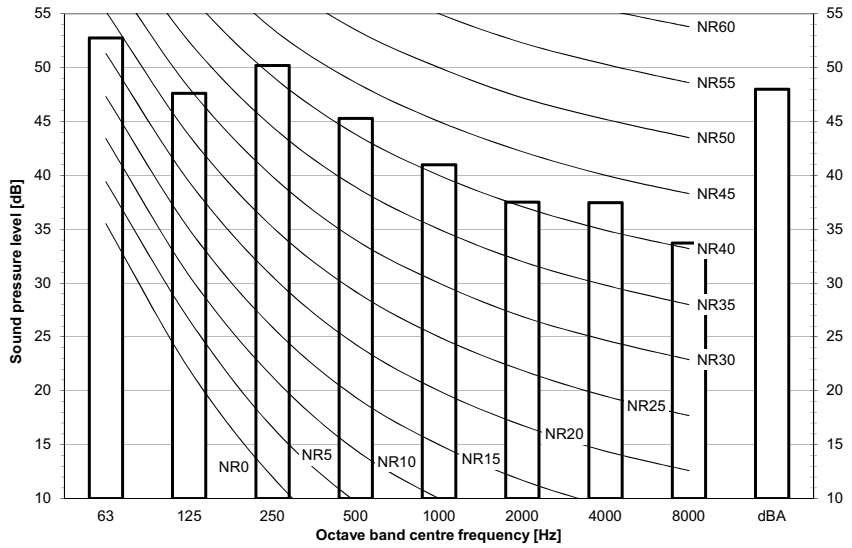


3D119538

11 Sound data

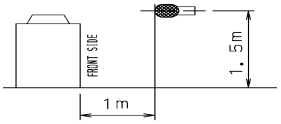
11 - 3 Sound Pressure Spectrum Quiet Mode

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



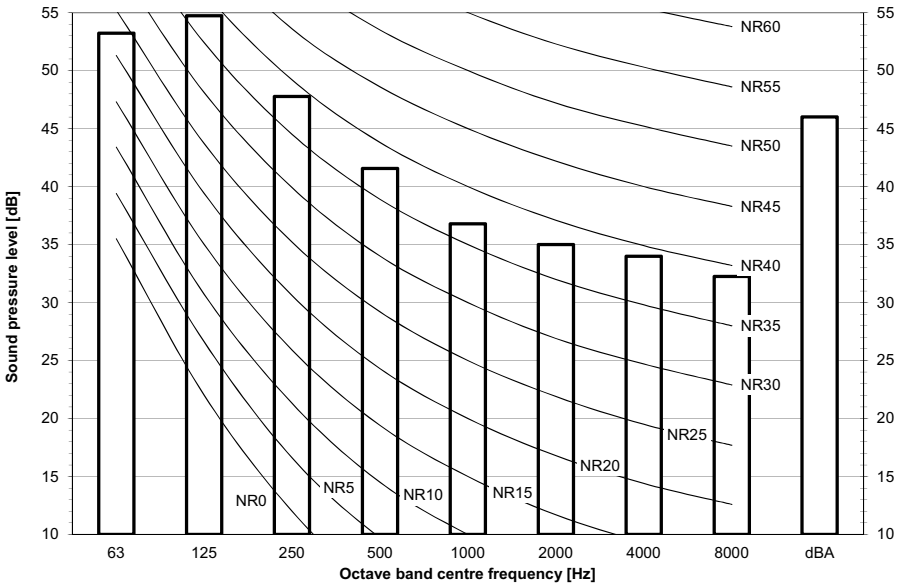
Notes
Data is valid at free field condition.
Data is valid at nominal operation condition.
dBA = A-weighted sound pressure level (A scale according to IEC).
Reference acoustic pressure 0 dB = 20 µPa

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)



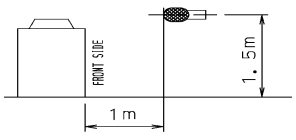
3D119539

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 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)

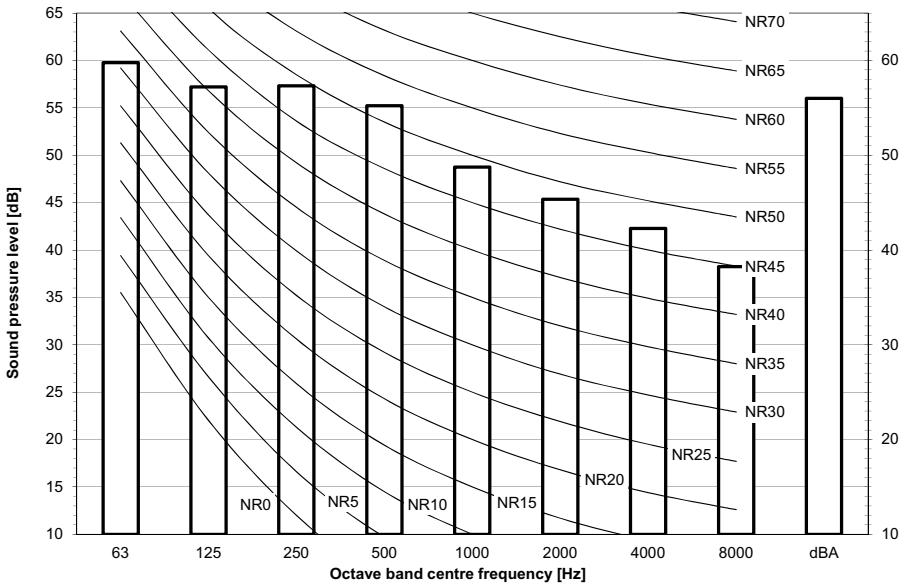


3D119540

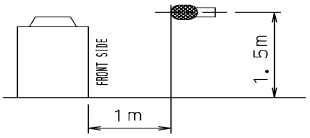
11 Sound data

11 - 3 Sound Pressure Spectrum Quiet Mode

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

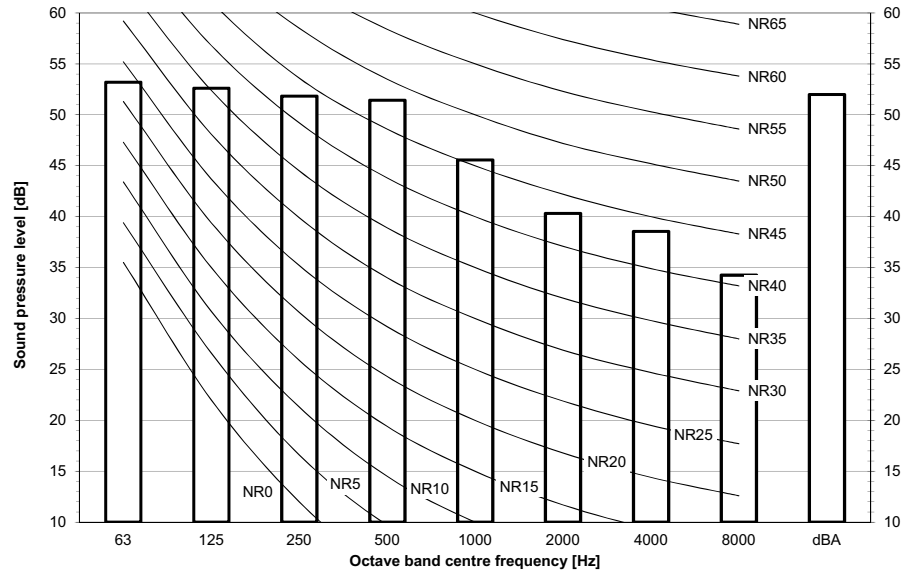


Notes
Data is valid at free field condition.
Data is valid at nominal operation condition.
dBA = A-weighted sound pressure level (A scale according to IEC).
Reference acoustic pressure 0 dB = 20 µPa
Data is valid under the following conditions
Cooling operation
Outdoor Ta: 35°C
Full load (maximum fan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

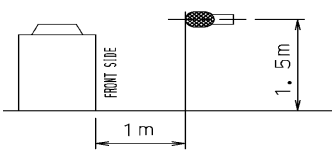


3D119541

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)

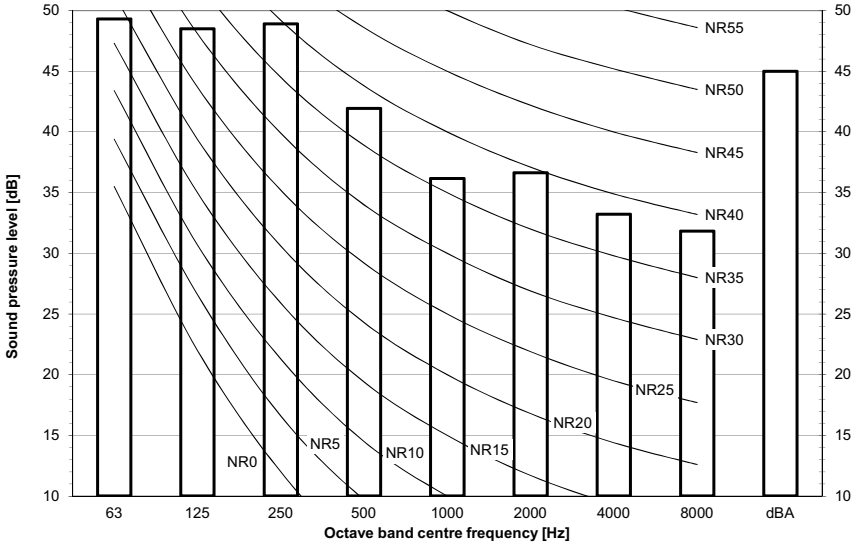


3D119542

11 Sound data

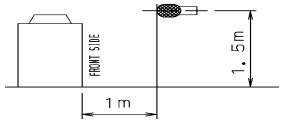
11 - 3 Sound Pressure Spectrum Quiet Mode

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)



3D119543

12 Installation

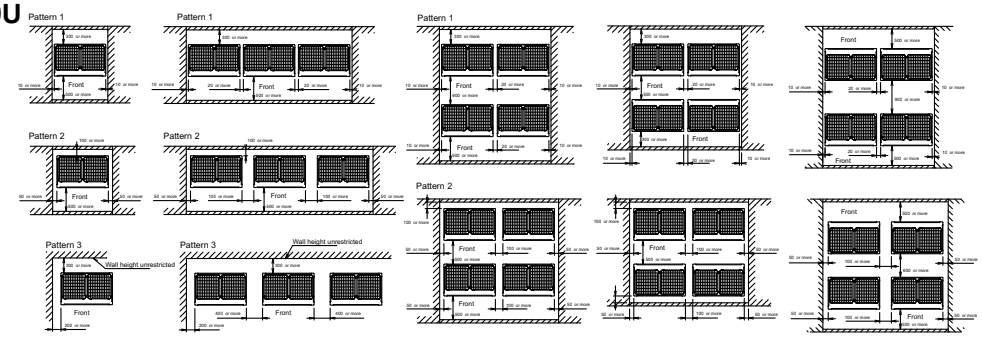
12 - 1 Installation Method

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

For single unit installation

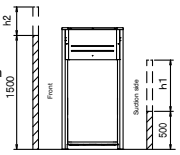
For installation in rows

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.

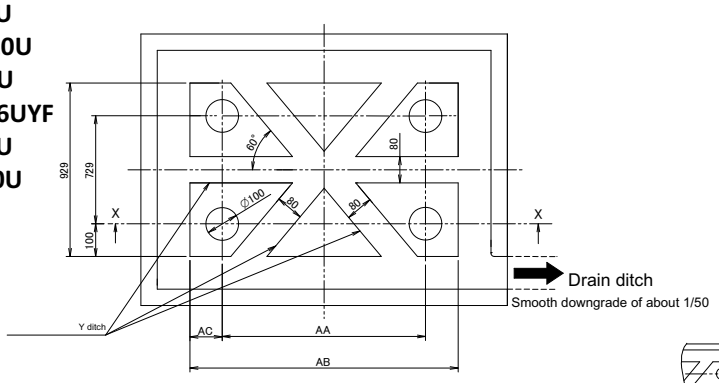
4. Provide sufficient space at the front to connect refrigerant piping (comfortably).

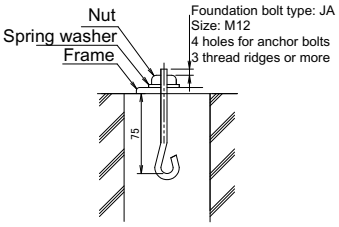
3D118467

12 Installation

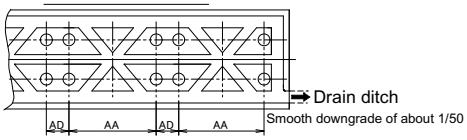
12 - 2 Fixation and Foundation of Units

REMQ5U
REYQ8-20U
RXYQQ8-20U
RXYQ8-20U
RXYTQ8-16UYF
RYYQ8-20U
RYMQ8-20U

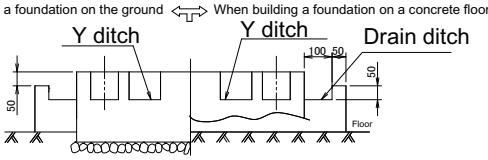




Foundation bolt fixing method



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



Cross section X - X

For multi-unit installation

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

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

RXYQ-U
RYYQ-Y
RYMQ-U

VRV4
Heat pump
Piping restrictions 1/3

For the reference drawing, see page 2/3.

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

Remark

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

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

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

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

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

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

The total piping length has to be within limitations.

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

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

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

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

a. Size up the liquid piping

b. A dedicated setting on the outdoor unit is required.

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

a. 40~60m Minimum connection ratio: 80%

60~65m Minimum connection ratio: 90%

65~80m Minimum connection ratio: 100%

80~90m Minimum connection ratio: 110%

b. Size up the liquid piping

A dedicated setting on the outdoor unit is required.

(4) The allowable minimum length is 5 m.

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

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

(7) Mix of AHU units and VRV DX indoor

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

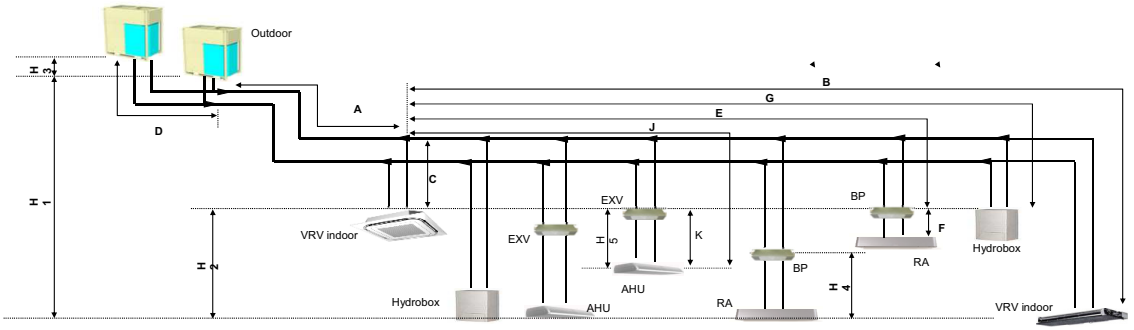
3D079540E

12 Installation

12 - 3 Refrigerant Pipe Selection

RXYQ-U
RYYQ-U
RYMQ-U

VRV4
Heat pump
Piping restrictions 2/3



Remark

(1) Schematic indication
Illustrations may differ from the actual appearance of the unit.

(2) This is only to illustrate piping length limitations.
Combination of indoor unit types is not allowed.
Refer to combination table 3D079543 for details about the allowed combinations.

		Allowed piping length		Maximum height difference	
		BP to RA	EXV to AHU	BP to RA	EXV to AHU
		(F)	(K)	(H4)	(H5)
RA connection		2~15m	-	5m	-
AHU connection	**Pair**	-	≦5m	-	5m
	Multi (1)	-	≦5m	-	5m
	Mix (2)	-	≦5m	-	5m

Remark

(1) Multiple air handling units (AHU)(EKEXV + EKEQ kits).
(2) Mix of AHU units and VRV DX indoor

3D079540E

12 Installation

12 - 3 Refrigerant Pipe Selection

RXYQ-U
RYYQ-U
RYMQ-U

VRV4
Heat pump
Piping restrictions 3/3

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

Remark

(1) There is no restriction on the number of connectable BP boxes.

(2) For connection with AHU
EKEXV kits are also considered indoor units.

(3) Restrictions regarding the air handling unit capacity

(4) Pair AHU = system with 1 air handling unit connected to one outdoor unit
Multi AHU = system with multiple air handling units connected to one outdoor unit

About ventilation applications

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

II. Biddle air curtains are considered air handling units, following air handling unit limitations:
For information on the operation range, refer to the documentation of the Biddle unit.

III. [EKEXV + EKEQ] units combined with an air handling unit are considered air handling units, following air handling unit limitations.
For information on the operation range, refer to the documentation of the EKEXV-EKEQ unit.

IV. VKM units are considered to be regular VRV DX indoor units.
For information on the operation range, refer to the documentation of the VKM unit.

V. Because there is no refrigerant connection with the outdoor unit (only communication F1/F2), VAM units do not have connection limitations.
However, since there is communication via F1/F2, count them as regular indoor unit when calculating the maximum allowed number of connectable indoor units.

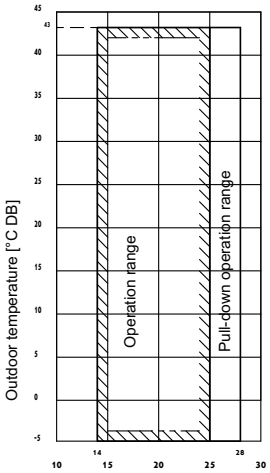
3D079540E

13 Operation range

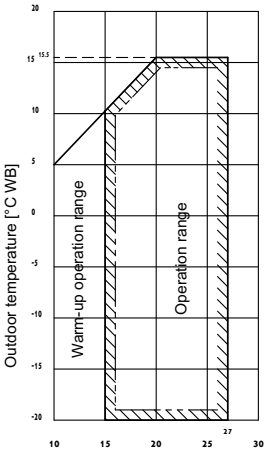
13 - 1 Operation Range

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

Cooling



Heating



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

RYYQ-U
RYMQ-U
RXYQ-U

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

.. HP	8	10	12	14	16	18	20
	4xFXMQ50	4xFXMQ63	6xFXMQ50	1xFXMQ50 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 ·RXYQ*U* / RYYQ*U* / RYMQ*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

Covered by ·ENER LOT10·

FTXJ25-35-50
FTXM20-25-35-42-50-60-71
CTXM15
FLXS25-35-50-60
FVXM25-35-50
FVXG25-35-50

Outside the scope of ·ENER LOT21·

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

3D118461

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