

VRV IV+ heat recovery Air Conditioning Technical Data REYQ-U

REYQ8U7Y1B
REYQ10U7Y1B
REYQ12U7Y1B
REYQ14U7Y1B
REYQ16U7Y1B
REYQ18U7Y1B
REYQ20U7Y1B
REYQ10U7Y1B.
REYQ13U7Y1B
REYQ16U7Y1B.
REYQ18U7Y1B.
REYQ20U7Y1B.
REYQ22U7Y1B
REYQ24U7Y1B
REYQ26U7Y1B
REYQ28U7Y1B
REYQ30U7Y1B
REYQ32U7Y1B
REYQ34U7Y1B
REYQ36U7Y1B
REYQ38U7Y1B
REYQ40U7Y1B
REYQ42U7Y1B
REYQ44U7Y1B
REYQ46U7Y1B
REYQ48U7Y1B
REYQ50U7Y1B
REYQ52U7Y1B
REYQ54U7Y1B
REMQ5U7Y1B



TABLE OF CONTENTS

REYQ-U

1	Features	4
	REYQ-U	4
2	Specifications	5
3	Options	26
4	Combination table	27
5	Capacity tables	29
	Capacity Table Legend	29
	Integrated Heating Capacity Correction Factor	30
	Capacity Correction Factor	31
6	Dimensional drawings	36
7	Centre of gravity	37
8	Piping diagrams	38
9	Wiring diagrams	39
	Wiring Diagrams - Three Phase	39
10	External connection diagrams	43
11	Sound data	45
	Sound Power Spectrum	45
	Sound Pressure Spectrum	49
	Sound Pressure Spectrum Quiet Mode Level 1	53
	Sound Pressure Spectrum Quiet Mode Level 2	55
	Sound Pressure Spectrum Quiet Mode Level 3	57
12	Installation	59
	Installation Method	59
	Fixation and Foundation of Units	60
	Refrigerant Pipe Selection	61
13	Operation range	63
14	Appropriate Indoors	64

1 Features

1 - 1 REYQ-U

Best efficiency & comfort solution

1

- › By choosing this product with Certified Reclaimed Refrigerant Allocation you support the reuse of refrigerant
- › Fully integrated solution with heat recovery for maximum efficiency with COPs of up to 8 !
- › 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
- › „Free“ heating and hot water production provided by transferring heat from areas requiring cooling to areas requiring heating or hot water
- › The perfect personal comfort for guests/tenants via simultaneous cooling and heating
- › Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, continuous heating, VRV configurator, 7 segment display and full inverter compressors, 4-side heat exchanger, refrigerant cooled PCB, new DC fan motor
- › Customize your VRV for best seasonal efficiency & comfort with the weather dependant Variable Refrigerant Temperature function. Increased seasonal efficiency with up to 28%. No more cold draft by supply of high outblow temperatures
- › Continuous comfort: Unique continuous heating technology makes VRV IV the best alternative to traditional heating systems
- › Free combination of outdoor units to meet installation space or efficiency requirements
- › Fits any building as also indoor installation is possible as a result of high external static pressure of up to 78.4 Pa. Indoor installation leads to less piping length, lower installation costs, increased efficiency and better visual aesthetics
- › Simplified installation & guaranteed optimal efficiency with automatic charging & testing
- › Easy compliance with F-gas regulation thanks to automated refrigerant containment check
- › Wide piping flexibility: 30m indoor height difference, maximum piping length: 190m, total piping length: 1,000m
- › Possibility to extend the operation range in cooling down to -20°C for technical cooling operation such as server rooms
- › 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, extended lifetime and immediate service support thanks to failure prediction



Inverter



2 Specifications

1 - 1 REYQ-U

Technical Specifications				REYQ8U	REYQ10U	REYQ12U	REYQ14U
Recommended combination				4 x FXFQ50AVEB	4 x FXFQ63AVEB	6 x FXFQ50AVEB	1 x FXFQ50AVEB + 5 x FXFQ63AVEB
Recommended combination 2				4 x FXSQ50A2VEB	4 x FXSQ63A2VEB	6 x FXSQ50A2VEB	1 x FXSQ50A2VEB + 5 x FXSQ63A2VEB
Recommended combination 3				4 x FXMQ50P7VEB	4 x FXMQ63P7VEB	6 x FXMQ50P7VEB	1 x FXMQ50P7VEB + 5 x FXMQ63P7VEB
Cooling capacity	Prated,c		kW	22.4 (1)	28.0 (1)	33.5 (1)	40.0 (1)
Heating capacity	Nom.	6°CWB	kW	22.4 (2)	28.0 (2)	33.5 (2)	40.0 (2)
	Prated,h		kW	22.4 (2)	28.0 (2)	33.5 (2)	40.0 (2)
	Max.	6°CWB	kW	25.0 (2)	31.5 (2)	37.5 (2)	45.0 (2)
Power input - 50Hz	Heating	Nom.	6°CWB	kW	5.40 (2)	7.58 (2)	9.65 (2)
COP at nom.	6°CWB		kW/kW	4.15 (2)	3.69 (2)	3.47 (2)	3.74 (2)
ESEER - Automatic				7.41	7.37	6.84	7.05
ESEER - Standard				6.25	5.78	5.36	5.45
SCOP				4.2	4.3	4.7	4.3
SCOP recommended combination 2				4.1	4.3	4.6	4.2
SCOP recommended combination 3				4.2		4.5	4.1
SEER				7.2	6.7	6.5	
SEER recommended combination 2				6.8		6.2	6.6
SEER recommended combination 3				7.2	6.7	6.6	
ηs,c				%	286.1	264.8	257.0
ηs,c recommended combination 2					270.2	270.4	246.6
ηs,c recommended combination 3					286.6	266.4	259.8
ηs,h				%	165.1	169.7	183.8
ηs,h recommended combination 2					160.9	169.4	179.5
ηs,h recommended combination 3					163.2	166.2	178.5
Space cooling	A Condi- tion (35°C - 27/19)	EERd Pdc	kW	3.2	2.7	2.5	2.8
	B Condi- tion (30°C - 27/19)	EERd Pdc	kW	5.3	5.1	4.7	4.8
	C Condi- tion (25°C - 27/19)	EERd Pdc	kW	9.6	7.7	7.5	8.3
	D Condi- tion (20°C - 27/19)	EERd Pdc	kW	13.1	14.1	15.1	11.3
				9.4	8.4	9.8	8.4
Space cooling recommended combination 2	A Condi- tion (35°C - 27/19)	EERd Pdc	kW	2.9	2.8	2.5	2.8
	B Condi- tion (30°C - 27/19)	EERd Pdc	kW	4.9	5.1	4.5	4.8
	C Condi- tion (25°C - 27/19)	EERd Pdc	kW	16.5	20.6	24.7	29.5
Space cooling recommended combination 2				9.1	8.0	7.1	8.5
	C Condi- tion (25°C - 27/19)	Pdc	kW	10.6	13.3	15.9	18.9
	D Condi- tion (20°C - 27/19)	EERd Pdc	kW	12.6	14.3	14.4	11.4
Space cooling recommended combination 3				9.2	8.5	9.6	8.4
	A Condi- tion (35°C - 27/19)	EERd Pdc	kW	3.1	2.7	2.5	2.8
	B Condi- tion (30°C - 27/19)	EERd Pdc	kW	22.4	28.0	33.5	40.0
	C Condi- tion (25°C - 27/19)	EERd Pdc	kW	5.4	5.1	4.7	4.8
	D Condi- tion (20°C - 27/19)	EERd Pdc	kW	16.5	20.6	24.7	29.5
Space cooling recommended combination 3				9.6	7.9	7.8	8.5
	C Condi- tion (25°C - 27/19)	Pdc	kW	10.6	13.3	15.9	18.9
	D Condi- tion (20°C - 27/19)	EERd Pdc	kW	13.0	14.1	15.1	11.6
				9.4	8.5	9.9	8.4

2 Specifications

1 - 1 REYQ-U

2

Technical Specifications				REYQ8U		REYQ10U		REYQ12U		REYQ14U		
Space heating (Average climate)	TBivalent	COPd (declared COP)			2.3		2.2		2.3		2.2	
		Pdh (declared heating cap)		kW	13.7		16.0		184		20.6	
		Tbiv (bivalent temperature) °C			-10							
	TOL	COPd (declared COP)			2.3		2.2		2.3		2.2	
		Pdh (declared heating cap)		kW	13.7		16.0		184		20.6	
		Tol (temperature operating limit)			-10							
	A Con- dition (-7°C)	COPd (declared COP)			2.7		2.6		2.9		2.7	
		Pdh (declared heating cap)		kW	12.1		14.2		16.3		18.2	
	B Condi- tion (2°C)	COPd (declared COP)			4.0				4.2		4.0	
		Pdh (declared heating cap)		kW	74		8.6		9.9		11.1	
C Condi- tion (7°C)	COPd (declared COP)			6.0		6.1		7.2		6.3		
	Pdh (declared heating cap)		kW	5.7				6.6		7.1		
D Con- dition (12°C)	COPd (declared COP)			9.3		10.3		9.4		6.8		
	Pdh (declared heating cap)		kW	8.8		70		7.7		5.4		
Space heating (Average climate) recommended combination 2	A Con- dition (-7°C)	COPd (declared COP)			2.6				2.8		2.7	
		Pdh (declared heating cap)		kW	12.1		14.2		16.2		18.2	
	B Condi- tion (2°C)	COPd (declared COP)			3.9		4.0		4.1		4.0	
		Pdh (declared heating cap)		kW	74		8.6		9.9		11.1	
	C Condi- tion (7°C)	COPd (declared COP)			5.8		6.1		70		6.2	
		Pdh (declared heating cap)		kW	5.6				6.5		7.1	
	D Con- dition (12°C)	COPd (declared COP)			9.0		10.3		9.1		6.6	
		Pdh (declared heating cap)		kW	8.7		6.9		76		5.2	
	TBivalent	COPd (declared COP)			2.2				2.3		2.1	
		Pdh (declared heating cap)		kW	13.7		16.0		184		20.6	
TOL	Tbiv (bivalent temperature) °C			-10								
	COPd (declared COP)			2.2				2.3		2.1		
Space heating (Average climate) recommended combination 2	TOL	Pdh (declared heating cap)		kW	13.7		16.0		184		20.6	
		Tol (temperature operating limit) °C			-10							
Space heating (Average climate) recommended combination 3	A Con- dition (-7°C)	COPd (declared COP)			2.6		2.5		2.8		2.7	
		Pdh (declared heating cap)		kW	12.1		14.2		16.3		18.2	
	B Condi- tion (2°C)	COPd (declared COP)			3.9				4.1		3.8	
		Pdh (declared heating cap)		kW	74		8.6		9.9		11.1	
	C Condi- tion (7°C)	COPd (declared COP)			5.8		6.0		6.9		5.9	
		Pdh (declared heating cap)		kW	5.5		5.6		6.4		7.1	
	D Con- dition (12°C)	COPd (declared COP)			9.2		10.1		9.1		6.2	
		Pdh (declared heating cap)		kW	8.7		6.9		74		4.9	
	TBivalent	COPd (declared COP)			2.3		2.1		2.3		2.1	
		Pdh (declared heating cap)		kW	13.7		16.0		184		20.6	
TOL	Tbiv (bivalent temperature) °C			-10								
	COPd (declared COP)			2.3		2.1		2.3		2.1		
	Pdh (declared heating cap)			13.7		16.0		184		20.6		
	Tol (temperature operating limit) °C			-10								
Capacity range				HP	8	10	12	14				
PED	Category			Category II								
	Most critical part	Name			Liquid receiver							
		Ps*V Bar*I			564							
Maximum number of connectable indoor units					64 (3)							
Indoor index connection	Min.			100.0		125.0		150.0		175.0		
	Max.			260.0		325.0		390.0		455.0		
Dimensions	Unit	Height		mm	1,685							
		Width		mm	930							
		Depth		mm	765							
	Packed unit	Height		mm	1,820							
		Width		mm	995							
		Depth		mm	860							
Weight	Unit		kg	230								
	Packed unit		kg	243								
Packing	Material			Carton								
	Weight			kg	18							
Packing 2	Material			Wood								
	Weight			kg	110							

2 Specifications

1 - 1 REYQ-U

Technical Specifications					REYQ8U	REYQ10U	REYQ12U	REYQ14U	
Packing 3	Material				Plastic				
	Weight kg				0.5			0.6	
Casing	Colour				Daikin White				
	Material				Painted galvanized steel plate				
Heat exchanger	Type				Cross fin coil				
	Indoor side				Air				
	Outdoor side				Air				
	Air flow rate	Cooling	Rated	m³/h	9,720	10,500	11,100	13,380	
		Heating	Rated	m³/h	9,720	10,500	11,100	13,380	
Fan	Quantity				1			2	
	External static pressure	Max.		Pa	78				
Fan motor	Quantity				1			2	
	Type				DC motor				
Compressor	Output				550			750	
	Quantity				1			2	
	Type				Hermetically sealed scroll compressor				
	Crankcase heater				W 33				
Operation range	Cooling	Min.	°CDB		-5.0				
		Max.	°CDB		43.0				
	Heating	Min.	°CWB		-20.0				
		Max.	°CWB		15.5				
Sound power level	Cooling	Nom.	dBA		78.0 (4)	79.1 (4)	83.4 (4)	80.9 (4)	
	Heating	Prated,h	dBA		79.6 (4)	80.9 (4)	83.5 (4)	83.9 (4)	
Sound pressure level	Cooling	Nom.	dBA		57.0 (5)		61.0 (5)	60.0 (5)	
Refrigerant	Type				R-410A				
	GWP				2,087.5				
	Charge				TCO2Eq	20.2	20.5	20.7	24.6
	Charge				kg	9.7	9.8	9.9	11.8
Refrigerant oil	Type				Synthetic (ether) oil FVC68D				
Piping connections	Liquid	Type			Braze connection				
		OD	mm		9.5		12.7		
	Gas	Type			Braze connection				
		OD	mm		19.1	22.2	28.6		
	HP/LP gas	Type			Braze connection				
		OD	mm		15.9	19.1		22.2	
	Total piping length	System	Actual	m	1,000 (6)				
Defrost method					Reversed cycle				
Capacity control	Method				Inverter controlled				
Indication if the heater is equipped with a supplementary heater					no				
Supplementary heater	Back-up capacity	Heating	elbu	kW	0.0				
Power consumption in other than active mode	Crank-case heater mode	Cooling	PCK	kW	0.000				
		Heating	PCK	kW	0.059		0.110		
	Off mode	Cooling	POFF	kW	0.052		0.120		
		Heating	POFF	kW	0.059		0.110		
	Standby mode	Cooling	PSB	kW	0.052		0.120		
		Heating	PSB	kW	0.059		0.110		
	Thermo-stat-off mode	Cooling	PTO	kW	0.003		0.006		
		Heating	PTO	kW	0.068		0.119		
	Cooling	Cdc (Degradation cooling)				0.25			
Heating	Cdh (Degradation heating)				0.25				
Safety devices	Item	01			High pressure switch				
		02			Fan driver overload protector				
		03			Inverter overload protector				
		04			PC board fuse				
		05			Leakage current detector				

Technical Specifications					REYQ16U	REYQ18U	REYQ20U
Recommended combination					4 x FXFQ63AVEB + 2 x FXFQ80AVEB	3 x FXFQ50AVEB + 5 x FXFQ63AVEB	2 x FXFQ50AVEB + 6 x FXFQ63AVEB
Recommended combination 2					4 x FXSQ63A2VEB + 2 x FXSQ80A2VEB	3 x FXSQ50A2VEB + 5 x FXSQ63A2VEB	2 x FXSQ50A2VEB + 6 x FXSQ63A2VEB
Recommended combination 3					4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	3 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	2 x FXMQ50P7VEB + 6 x FXMQ63P7VEB
Cooling capacity	Prated,c	kW	45.0 (1)		50.4 (1)		52.0 (1)

2 Specifications

1 - 1 REYQ-U

2

Technical Specifications				REYQ16U	REYQ18U	REYQ20U
Heating capacity	Nom.	6°CWB	kW	45.0 (2)	50.4 (2)	56.0 (2)
	Prated,h		kW	45.0 (2)	50.4 (2)	56.0 (2)
	Max.	6°CWB	kW	50.0 (2)	56.5 (2)	63.0 (2)
Power input - 50Hz	Heating	Nom.	6°CWB	12.54 (2)	14.22 (2)	17.47 (2)
COP at nom.	6°CWB		kW/kW	3.59 (2)	3.54 (2)	3.20 (2)
capacity						
ESEER - Automatic				6.63	6.26	5.68
ESEER - Standard				5.14	4.84	4.39
SCOP				4.3	4.4	4.1
SCOP recommended combination 2				4.2	4.3	4.1
SCOP recommended combination 3				4.1	4.2	4.0
SEER				6.2	6.3	6.2
SEER recommended combination 2				6.2	6.4	6.3
SEER recommended combination 3				6.1	6.4	6.3
ηs,c				243.1	250.6	246.7
ηs,c recommended combination 2				244.5	251.9	249.6
ηs,c recommended combination 3				241.7	252.0	248.9
ηs,h				167.5	172.5	162.7
ηs,h recommended combination 2				164.4	170.0	161.4
ηs,h recommended combination 3				160.5	164.7	157.3
Space cooling	A Condi-	EERd		2.2		
	tion (35°C	Pdc	kW	45.0	50.4	52.0
	- 27/19)					
	B Condi-	EERd		4.6	4.5	4.4
	tion (30°C	Pdc	kW	33.2	37.1	38.3
	- 27/19)					
	C Condi-	EERd		8.1	7.8	7.7
	tion (25°C	Pdc	kW	21.3	23.9	24.6
	- 27/19)					
	D Condi-	EERd		11.2	15.0	14.6
	tion (20°C	Pdc	kW	9.5	11.6	13.6
	- 27/19)					
Space cooling recommended combination 2	A Condi-	EERd		2.2		
	tion (35°C	Pdc	kW	45.0	50.4	52.0
	- 27/19)					
	B Condi-	EERd		4.5	4.4	
	tion (30°C	Pdc	kW	33.2	37.1	38.3
	- 27/19)					
	C Condi-	EERd		8.2	7.9	
	tion (25°C	Pdc	kW	21.3	23.9	24.6
	- 27/19)					
Space cooling recommended combination 2	D Condi-	EERd		11.3	15.0	14.9
	tion (20°C	Pdc	kW	9.5	11.6	13.6
	- 27/19)					
	A Condi-	EERd		2.2		
	tion (35°C	Pdc	kW	45.0	50.4	52.0
	- 27/19)					
	B Condi-	EERd		4.5	4.4	
	tion (30°C	Pdc	kW	33.2	37.1	38.3
	- 27/19)					
	C Condi-	EERd		8.0		7.9
	tion (25°C	Pdc	kW	21.3	23.9	24.6
	- 27/19)					
	D Condi-	EERd		11.3	15.2	15.0
	tion (20°C	Pdc	kW	9.5	11.8	13.6
	- 27/19)					

2 Specifications

1 - 1 REYQ-U

Technical Specifications				REYQ16U	REYQ18U	REYQ20U		
Space heating (Average climate)	TBivalent	COPd (declared COP)		2.1	2.6	2.4		
		Pdh (declared heating cap) kW		23.2	279	310		
		Tbiv (bivalent temperature) °C			-10			
	TOL	COPd (declared COP)		2.1	2.6	2.4		
		Pdh (declared heating cap) kW		23.2	279	310		
		Tol (temperature operating limit) °C			-10			
	A Con- dition (-7°C)	COPd (declared COP)		2.7	2.9	2.7		
		Pdh (declared heating cap) kW		20.5	24.7	274		
	B Condi- tion (2°C)	COPd (declared COP)		3.9	4.1	3.7		
		Pdh (declared heating cap) kW		12.5	15.0	16.7		
Space heating (Average climate) recommended combination 2	C Condi- tion (7°C)	COPd (declared COP)		6.5	6.2	6.1		
		Pdh (declared heating cap) kW		8.0	9.7	10.7		
	D Con- dition (12°C)	COPd (declared COP)		6.9	8.0	8.1		
		Pdh (declared heating cap) kW		5.5	8.2			
	A Con- dition (-7°C)	COPd (declared COP)		2.6	2.9	2.7		
		Pdh (declared heating cap) kW		20.5	24.7	274		
	B Condi- tion (2°C)	COPd (declared COP)		3.9	4.0	3.7		
		Pdh (declared heating cap) kW		12.5	15.0	16.7		
	Space heating (Average climate) recommended combination 3	C Condi- tion (7°C)	COPd (declared COP)		6.4	6.0	6.1	
Pdh (declared heating cap) kW			8.0	9.7	10.7			
D Con- dition (12°C)		COPd (declared COP)		6.7	79			
		Pdh (declared heating cap) kW		5.3	8.0			
TBivalent		COPd (declared COP)		2.1	2.5	2.4		
		Pdh (declared heating cap) kW		23.2	279	310		
		Tbiv (bivalent temperature) °C			-10			
TOL		COPd (declared COP)		2.1	2.5	2.4		
Space heating (Average climate) recommended combination 2		TOL	Pdh (declared heating cap) kW		23.2	279	310	
	Tol (temperature operating limit) °C			-10				
Space heating (Average climate) recommended combination 3	A Con- dition (-7°C)	COPd (declared COP)		2.6	2.8	2.7		
		Pdh (declared heating cap) kW		20.5	24.7	274		
	B Condi- tion (2°C)	COPd (declared COP)		3.8	3.9	3.6		
		Pdh (declared heating cap) kW		12.5	15.0	16.7		
	C Condi- tion (7°C)	COPd (declared COP)		6.2	5.8	5.9		
		Pdh (declared heating cap) kW		8.0	9.7	10.7		
	D Con- dition (12°C)	COPd (declared COP)		6.5	74	76		
		Pdh (declared heating cap) kW		5.1	76	7.7		
	TBivalent	COPd (declared COP)		2.1	2.5	2.3		
		Pdh (declared heating cap) kW		23.2	279	310		
Tbiv (bivalent temperature) °C			-10					
Maximum number of connectable indoor units	TOL	COPd (declared COP)		2.1	2.5	2.3		
		Pdh (declared heating cap) kW		23.2	279	310		
		Tol (temperature operating limit) °C			-10			
	Capacity range			HP	16	18	20	
	PED	Category			Category II			
		Most critical part			Liquid receiver			
		Name						
		Ps*V	Bar*I	672	824			
	Maximum number of connectable indoor units					64 (3)		
Indoor index connection	Min.			200.0	225.0	250.0		
	Max.			520.0	585.0	650.0		
Dimensions	Unit	Height	mm	1,685				
		Width	mm	1,240				
		Depth	mm	765				
	Packed unit	Height	mm	1,820				
		Width	mm	1,305				
		Depth	mm	860				
Weight	Unit	kg	314	317				
	Packed unit	kg	331	334				
Packing	Material		Carton					
	Weight		2.2					
Packing 2	Material		Wood					
	Weight		14.0					

2 Specifications

1 - 1 REYQ-U

2

Technical Specifications					REYQ16U	REYQ18U	REYQ20U
Packing 3	Material				Plastic		
	Weight kg				0.6		
Casing	Colour				Daikin White		
	Material				Painted galvanized steel plate		
Heat exchanger	Type				Cross fin coil		
	Indoor side				Air		
	Outdoor side				Air		
	Air flow rate	Cooling	Rated	m³/h	15,600	15,060	15,660
		Heating	Rated	m³/h	15,600	15,060	15,660
Fan	Quantity				2		
	External static pressure	Max.	Pa		78		
Fan motor	Quantity				2		
	Type				DC motor		
	Output W				750		
Compressor	Quantity				2		
	Type				Hermetically sealed scroll compressor		
	Crankcase heater				33		
Operation range	Cooling	Min.	°CDB		-5.0		
		Max.	°CDB		43.0		
	Heating	Min.	°CWB		-20.0		
		Max.	°CWB		15.5		
		Sound power level	Cooling	Nom.	dBA	85.6 (4)	83.8 (4)
	Heating	Prated,h	dBA	86.9 (4)	85.3 (4)	89.8 (4)	
Sound pressure level	Cooling	Nom.	dBA	63.0 (5)	62.0 (5)	65.0 (5)	
Refrigerant	Type				R-410A		
	GWP				2,087.5		
	Charge TCO2Eq				24.6		
	Charge kg				118		
Refrigerant oil	Type				Synthetic (ether) oil FVC68D		
Piping connections	Liquid	Type			Braze connection		
		OD	mm		12.7	15.9	
	Gas	Type			Braze connection		
		OD	mm		28.6		
	HP/LP gas	Type			Braze connection		
		OD	mm		22.2	28.6	
	Total piping length	System	Actual	m	1,000 (6)		
Defrost method					Reversed cycle		
Capacity control	Method				Inverter controlled		
Indication if the heater is equipped with a supplementary heater					no		
Supplementary heater	Back-up capacity	Heating	elbu	kW	0.0		
Power consumption in other than active mode	Crank-case heater mode	Cooling	PCK	kW	0.000		
		Heating	PCK	kW	0.110	0.134	
	Off mode	Cooling	POFF	kW	0.120	0.118	
		Heating	POFF	kW	0.110	0.134	
	Standby mode	Cooling	PSB	kW	0.120	0.118	
		Heating	PSB	kW	0.110	0.134	
	Thermo-stat-off mode	Cooling	PTO	kW	0.006	0.012	
		Heating	PTO	kW	0.119	0.144	
Cooling	Cdc (Degradation cooling)				0.25		
Heating	Cdh (Degradation heating)				0.25		
Safety devices	Item	01			High pressure switch		
		02			Fan driver overload protector		
		03			Inverter overload protector		
		04			PC board fuse		
		05			Leakage current detector		

Standard accessories: Installation and operation manual;Quantity: 1;

Standard accessories: Connection pipes;Quantity: 1;

Electrical Specifications					REYQ8U	REYQ10U	REYQ12U	REYQ14U
Power supply	Name				Y1			
	Phase				3N~			
	Frequency	Hz			50			
	Voltage	V			380-415			

2 Specifications

1 - 1 REYQ-U

Electrical Specifications				REYQ8U	REYQ10U	REYQ12U	REYQ14U
Power supply intake				Both indoor and outdoor unit			
Voltage range	Min.		%	-10			
	Max.		%	10			
Current	Nominal running current (RLA)	Cooling	A	7.7 (7)	10.5 (7)	13.8 (7)	15.6 (7)
Current - 50Hz	Nominal running current (RLA)	Combina- tion A	Cooling	-			
	Nominal running current (RLA)	Combina- tion B	Cooling	-			
	Starting current (MSC) - remark			See note 8			
	Zmax List			No requirements			
	Minimum Ssc value		kVa	2,893 (9)	3,954 (9)	4,313 (9)	4,852 (9)
	Minimum circuit amps (MCA)		A	16.1 (10)	22.0 (10)	24.0 (10)	27.0 (10)
	Maximum fuse amps (MFA)		A	20 (11)	25 (11)	32 (11)	
	Full load amps (FLA)	Total	A	12 (12)	13 (12)	15 (12)	18 (12)
Power Performance	Power factor	Combina- tion B	35°C ISO - Full load	-			
			46°C ISO - Full load	-			
Wiring connections - 50Hz	For power supply	Quantity		5G			
	For connection with indoor	Quantity		2			
		Remark		F1F2			

Electrical Specifications				REYQ16U	REYQ18U	REYQ20U
Power supply	Name			Y1		
	Phase			3N~		
	Frequency		Hz	50		
	Voltage		V	380-415		
Power supply intake				Both indoor and outdoor unit		
Voltage range	Min.		%	-10		
	Max.		%	10		
Current	Nominal running current (RLA)	Cooling	A	18.5 (7)	22.0 (7)	28.5 (7)
Current - 50Hz	Nominal running current (RLA)	Combina- tion A	Cooling	-		
	Nominal running current (RLA)	Combina- tion B	Cooling	-		
	Starting current (MSC) - remark			See note 8		
	Zmax List			No requirements		
	Minimum Ssc value		kVa	5,391 (9)	6,289 (9)	7,009 (9)
	Minimum circuit amps (MCA)		A	310 (10)	35.0 (10)	39.0 (10)
	Maximum fuse amps (MFA)		A	40 (11)		50 (11)
	Full load amps (FLA)	Total	A	2.6 (12)		
Power Performance	Power factor	Combina- tion B	35°C ISO - Full load	-		
			46°C ISO - Full load	-		
Wiring connections - 50Hz	For power supply	Quantity		5G		
	For connection with indoor	Quantity		2		
		Remark		F1F2		

(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 and the connection ratio restriction for the system (50% ≤ CR ≤ 120%) |

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

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

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

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

(8)MSC means the maximum current during start up of the compressor. This unit uses only inverter compressors. Starting current is always ≤ max. running current. |

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

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

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

(12)FLA means the nominal running current of the fan |

(13)Maximum allowable voltage range variation between phases is 2%. |

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

(15)The AUTOMATIC ESEER value corresponds with normal VRV4 Heat Recovery operation, taking into account advanced energy saving operation functionality (variable refrigerant temperature control operation) |

2 Specifications

1 - 1 REYQ-U

(16)The STANDARD ESEER value corresponds with normal VRV4 Heat Recovery operation, not taking into account advanced energy saving operation functionality |

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

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

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

(20)Ssc: Short-circuit power |

(21)For detailed contents of standard accessories, see installation/operation manual |

(22)Multi combination (10~54HP) data is corresponding with the standard multi combination

Technical specifications System				REYQ10U	REYQ13U	REYQ16U	REYQ18U	REYQ20U	REYQ22U
System Outdoor unit module 1				REMQ5U		REYQ8U		REYQ10U	
System Outdoor unit module 2				REMQ5U		REYQ8U		REYQ10U	
Recommended combination				4 x FXFQ63AVEB	3 x FXFQ50AVEB + 3 x FXFQ63AVEB	4 x FXFQ63AVEB + 2 x FXFQ80AVEB	4 x FXFQ50AVEB + 4 x FXFQ63AVEB	10 x FXFQ50AVEB	6 x FXFQ50AVEB + 4 x FXFQ63AVEB
Recommended combination 2				4 x FXSQ63A2VEB	3 x FXSQ50A2VEB + 3 x FXSQ63A2VEB	4 x FXSQ63A2VEB + 2 x FXSQ80A2VEB	4 x FXSQ50A2VEB + 4 x FXSQ63A2VEB	10 x FXSQ50A2VEB	6 x FXSQ50A2VEB + 4 x FXSQ63A2VEB
Recommended combination 3				4 x FXMQ63P7VEB	3 x FXMQ50P7VEB + 3 x FXMQ63P7VEB	4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	4 x FXMQ50P7VEB + 4 x FXMQ63P7VEB	10 x FXMQ50P7VEB	6 x FXMQ50P7VEB + 4 x FXMQ63P7VEB
Continuous heating				Yes					
Cooling capacity Prated,c				kW	28.0 (1)	36.4 (1)	44.8 (1)	50.4 (1)	55.9 (1)
Heating capacity Nom. 6°CWB				kW	28.0 (2)	36.4 (2)	44.8 (2)	50.4 (2)	55.9 (2)
Prated,h				kW	28.0 (2)	36.4 (2)	44.8 (2)	50.4 (2)	55.9 (2)
Max. 6°CWB				kW	32.0 (2)	410 (2)	50.0 (2)	56.5 (2)	62.5 (2)
Power input - 50Hz Heating Nom. 6°CWB				kW	7.56 (2)	9.67 (2)	12.57 (2)	12.98 (2)	15.05 (2)
COP at nom. 6°CWB				kW/kW	3.71 (2)	3.76 (2)	3.57 (2)	3.88 (2)	3.71 (2)
ESEER - Automatic					7.77	7.54	7.41	7.38	7.06
ESEER - Standard					6.55	6.36	6.25	5.98	5.68
SCOP					4.0	4.1	4.3		4.5
SCOP recommended combination 2					4.1	4.0	4.2	4.4	4.5
SCOP recommended combination 3					4.1	4.2	4.1	4.2	4.4
SEER					7.0	7.6	7.3	6.9	6.7
SEER recommended combination 2					7.1	7.5	7.3	6.8	6.4
SEER recommended combination 3					6.9	7.4	7.1	6.9	6.8
ηs,c				%	275.1	301.3	288.6	272.9	266.0
ηs,c recommended combination 2					280.4	296.3	290.6	269.4	252.4
ηs,c recommended combination 3					272.0	291.7	282.1	274.2	269.0
ηs,h				%	158.8	160.6	168.2	167.9	175.7
ηs,h recommended combination 2					160.2	157.6	164.5	166.0	173.3
ηs,h recommended combination 3					161.0	166.5	160.4	165.0	171.9
Space cooling A Condi- EERd				kW	3.5	3.3	3.0	2.9	2.7
tion (35°C Pdc - 27/19)					28.0	36.4	44.8	50.4	55.9
B Condi- EERd				kW	5.8	5.5	5.0	5.2	4.9
tion (30°C Pdc - 27/19)					20.6	26.8	33.0	37.1	41.2
C Condi- EERd				kW	8.4	9.8	9.1	8.5	8.3
tion (25°C Pdc - 27/19)					16.8	17.2	21.2	23.9	26.5
D Condi- EERd				kW	13.5	14.8	15.0	13.6	12.5
tion (20°C Pdc - 27/19)					9.6	10.0		17.8	11.8
Space cooling recommended combination 2				kW	3.6	3.2	3.0	2.8	2.7
A Condi- EERd					28.0	36.4	44.8	50.4	55.9
Space cooling recommended combination 2				kW	5.9	5.5	5.1	5.0	4.7
B Condi- EERd					20.6	26.8	33.0	37.1	41.2
C Condi- EERd				kW	8.5	9.5	9.2	8.5	7.8
tion (25°C Pdc - 27/19)					17.0	17.2	21.2	23.9	26.5
D Condi- EERd				kW	13.9	14.7	15.1	13.3	11.7
tion (20°C Pdc - 27/19)					9.8	10.0	10.1	17.7	11.8

2 Specifications

1 - 1 REYQ-U

Technical specifications System				REYQ10U	REYQ13U	REYQ16U	REYQ18U	REYQ20U	REYQ22U
Space cooling recommended combination 3	A Condi- tion (35°C Pdc - 27/19)	EERd	kW	3.5	3.3	3.0	2.9	2.7	2.6
	B Condi- tion (30°C Pdc - 27/19)	EERd	kW	5.7	5.6	4.9	5.2	4.9	4.5.3
	C Condi- tion (25°C Pdc - 27/19)	EERd	kW	8.3	9.0	8.9	8.6	8.4	7.8
	D Condi- tion (20°C Pdc - 27/19)	EERd	kW	13.0	14.5	14.9	13.5	12.7	14.6
				9.4	9.9	10.1	18.0	11.8	18.4
Space heating (Average climate)	TBivalent	COPd (declared COP)		18	2.3	2.4		2.3	
		Pdh (declared heating cap)	kW	16.0	21.7	23.2	27.9	31.0	34.4
		Tbiv (bivalent temperature)	°C			-10			
	TOL	COPd (declared COP)		18	2.3	2.4		2.3	
		Pdh (declared heating cap)	kW	16.0	21.7	23.2	27.9	31.0	34.4
		Tol (temperature operating limit)	°C			-10			
	A Condi- tion (-7°C)	COPd (declared COP)	kW	19	2.6	2.7	2.6	2.8	2.7
		Pdh (declared heating cap)	kW	14.2	19.2	20.5	24.7	27.4	30.4
	B Condi- tion (2°C)	COPd (declared COP)	kW	4.0	3.6	3.8	4.0	4.1	
		Pdh (declared heating cap)	kW	8.6	11.7	12.5	15.0	16.7	18.5
	C Condi- tion (7°C)	COPd (declared COP)	kW	6.1	6.2	6.3	6.0	6.6	6.7
		Pdh (declared heating cap)	kW	5.7	7.5	8.0	11.3	12.2	12.3
Space heating (Average climate) recommended combination 2	D Con- dition (12°C)	COPd (declared COP)	kW	9.6	10.6	11.1	10.3	9.4	10.3
		Pdh (declared heating cap)	kW	8.9	9.1	9.2	7.0	7.7	7.0
	A Condi- tion (-7°C)	COPd (declared COP)	kW	2.5		2.7	2.6	2.8	2.7
		Pdh (declared heating cap)	kW	14.2	19.2	20.5	24.7	27.4	30.4
	B Condi- tion (2°C)	COPd (declared COP)	kW	3.9	3.6	3.7	3.9	4.1	
		Pdh (declared heating cap)	kW	8.6	11.7	12.5	15.0	16.7	18.5
	C Condi- tion (7°C)	COPd (declared COP)	kW	5.8	6.1	6.3	5.9	6.5	6.6
		Pdh (declared heating cap)	kW	5.5	7.5	8.0	11.2	12.3	12.1
	D Con- dition (12°C)	COPd (declared COP)	kW	9.1	10.4	10.8	10.3	9.1	10.3
		Pdh (declared heating cap)	kW	8.7	9.0	9.2	6.9	7.6	6.9
	TBivalent	COPd (declared COP)		2.3	2.2	2.3	2.2	2.3	2.2
		Pdh (declared heating cap)	kW	16.0	21.7	23.2	27.9	31.0	34.4
Space heating (Average climate) recommended combination 2		Tbiv (bivalent temperature)	°C			-10			
	TOL	COPd (declared COP)		2.3	2.2	2.3	2.2	2.3	2.2
		Pdh (declared heating cap)	kW	16.0	21.7	23.2	27.9	31.0	34.4
		Tol (temperature operating limit)	°C			-10			
Space heating (Average climate) recommended combination 3	A Condi- tion (-7°C)	COPd (declared COP)	kW	2.4	2.5	2.6		2.8	2.7
		Pdh (declared heating cap)	kW	14.2	19.2	20.5	24.7	27.4	30.4
	B Condi- tion (2°C)	COPd (declared COP)	kW	3.9	3.7		3.9	4.0	
		Pdh (declared heating cap)	kW	8.6	11.7	12.5	15.0	16.7	18.5
	C Condi- tion (7°C)	COPd (declared COP)	kW	5.8	6.1	5.9		6.4	
		Pdh (declared heating cap)	kW	5.5	7.5	8.0	11.1	11.9	
	D Con- dition (12°C)	COPd (declared COP)	kW	9.2	16.8	10.5	10.1	9.1	10.1
		Pdh (declared heating cap)	kW	8.7	5.1	8.9	6.9	7.4	6.9
	TBivalent	COPd (declared COP)		2.2		2.3	2.2	2.3	2.2
		Pdh (declared heating cap)	kW	16.0	21.7	23.2	27.9	31.0	34.4
		Tbiv (bivalent temperature)	°C			-10			
	TOL	COPd (declared COP)		2.2		2.3	2.2	2.3	2.2
Capacity range PED		Pdh (declared heating cap)	kW	16.0	21.7	23.2	27.9	31.0	34.4
		Tol (temperature operating limit)	°C			-10			
	Maximum number of connectable indoor units			64 (3)					
	Indoor index connection	Min.		125.0	163.0	200.0	225.0	250.0	275.0
		Max.		325.0	423.0	520.0	585.0	650.0	715.0
	Heat exchanger	Indoor side							
		Outdoor side							
	Air flow rate	Cooling Rated	m³/h		19,440		20,220	20,820	21,600
		Heating Rated	m³/h		19,440		20,220	20,820	21,600

2 Specifications

1 - 1 REYQ-U

2

Technical specifications System					REYQ10U	REYQ13U	REYQ16U	REYQ18U	REYQ20U	REYQ22U	
Sound power level	Cooling	Nom.		dBA	810 (4)			816 (4)	84.5 (4)	84.8 (4)	
	Heating	Prated,h		dBA	819 (4)	82.3 (4)	82.6 (4)	83.3 (4)	85.0 (4)	85.4 (4)	
Sound pressure level	Cooling	Nom.		dBA	60.0 (5)				62.5 (5)		
Refrigerant	Type				R-410A						
	GWP				2,087.5						
Refrigerant oil	Type				Synthetic (ether) oil FVC68D						
Piping connections	Liquid	Type				Braze connection					
		OD		mm	9.5	12.7		15.9			
Piping connections	Gas	Type				Braze connection					
		OD		mm	22.2	28.6					
Piping connections	HP/LP gas	Type				Braze connection					
		OD		mm	19.1		22.2		28.6		
	Total piping length	System	Actual	m	500 (6)					1,000 (6)	
Defrost method					Reversed cycle						
Capacity control	Method				Inverter controlled						
Indication if the heater is equipped with a supplementary heater					no						
Supplementary heater	Back-up capacity	Heating	elbu	kW	0.0						
Power consumption in other than active mode	Crank-case heater mode	Cooling	PCK	kW	0.000						
		Heating	PCK	kW	0.117						
	Off mode	Cooling	POFF	kW	0.105						
		Heating	POFF	kW	0.117						
	Standby mode	Cooling	PSB	kW	0.105						
		Heating	PSB	kW	0.117						
	Thermo-stat-off mode	Cooling	PTO	kW	0.006						
		Heating	PTO	kW	0.136						
Cooling	Cdc (Degradation cooling)				0.25						
Heating	Cdh (Degradation heating)				0.25						

Technical specifications System					REYQ24U	REYQ26U	REYQ28U	REYQ30U	REYQ32U	REYQ34U
System	Outdoor unit module 1				REYQ8U		REYQ12U		REYQ16U	
	Outdoor unit module 2				REYQ16U	REYQ14U	REYQ16U	REYQ18U	REYQ16U	REYQ18U
Recommended combination					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
					Recommended combination 2					4 x FXSQ50A2VEB + 4 x FXSQ63A2VEB + 2 x FXSQ80A2VEB
Recommended combination 3					4 x FXMQ50P7VEB + 4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	7 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	6 x FXMQ50P7VEB + 4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	9 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	8 x FXMQ63P7VEB + 4 x FXMQ80P7VEB	3 x FXMQ50P7VEB + 9 x FXMQ63P7VEB + 2 x FXMQ80P7VEB
					Continuous heating					Yes
Cooling capacity	Prated,c			kW	67.4 (1)	73.5 (1)	78.5 (1)	83.9 (1)	90.0 (1)	95.4 (1)
Heating capacity	Nom.	6°CWB		kW	67.4 (2)	73.5 (2)	78.5 (2)	83.9 (2)	90.0 (2)	95.4 (2)
		Prated,h		kW	67.4 (2)	73.5 (2)	78.5 (2)	83.9 (2)	90.0 (2)	95.4 (2)
		Max.	6°CWB	kW	75.0 (2)	82.5 (2)	87.5 (2)	94.0 (2)	100.0 (2)	106.5 (2)
Power input - 50Hz	Heating	Nom.	6°CWB	kW	17.94 (2)	20.33 (2)	22.19 (2)	23.87 (2)	25.08 (2)	26.76 (2)
COP at nom.	6°CWB			kW/kW	3.76 (2)	3.61 (2)	3.54 (2)	3.51 (2)	3.59 (2)	3.56 (2)
capacity										
ESEER - Automatic					6.87	6.95	6.72	6.48	6.63	6.43
ESEER - Standard					5.46	5.41	5.23	5.03	5.14	4.97
SCOP					4.3	4.5	4.4	4.6	4.3	4.4
SCOP recommended combination 2					4.2	4.4		4.5	4.2	4.3
SCOP recommended combination 3					4.1	4.3		4.4	4.1	4.2
SEER					6.5		6.4	6.7	6.2	6.6
SEER recommended combination 2					6.4		6.3	6.6	6.2	6.6
SEER recommended combination 3					6.5	6.6	6.4	6.8	6.1	6.6
ηs,c				%	257.7	257.5	251.9	266.8	243.1	259.2
ηs,c recommended combination 2					253.7	254.1	247.9	262.9	244.5	260.6
ηs,c recommended combination 3					256.6	260.5	252.2	269.3	241.7	259.8

2 Specifications

1 - 1 REYQ-U

Technical specifications System			REYQ24U	REYQ26U	REYQ28U	REYQ30U	REYQ32U	REYQ34U
ηs,h	%		167.6	175.5	174.8	179.4	169.1	172.0
ηs,h recommended combination 2			164.3	172.5	171.3	176.1	166.1	169.3
ηs,h recommended combination 3			162.1	168.6	168.4	172.6	162.2	164.4
Space cooling	A Condi- EERd		2.5	2.7	2.4		2.2	2.3
	tion (35°C Pdc - 27/19)	kW	674	73.5	78.5	83.9	90.0	95.4
	B Condi- EERd		4.8	4.7	4.6	4.8	4.6	4.8
	tion (30°C Pdc - 27/19)	kW	49.7	54.2	57.9	61.8	66.3	70.3
	C Condi- EERd		8.5	7.9	7.8	8.2	8.1	8.4
	tion (25°C Pdc - 27/19)	kW	319	34.8	37.2	39.7	42.6	45.2
	D Condi- EERd		12.4	13.2	13.3	15.9	11.2	13.7
	tion (20°C Pdc - 27/19)	kW	173	17.6	17.7	21.3	18.9	21.0
Space cooling recommended combination 2	A Condi- EERd		2.4	2.7	2.4		2.2	2.3
	tion (35°C Pdc - 27/19)	kW	674	73.5	78.5	83.9	90.0	95.4
Space cooling recommended combination 2	B Condi- EERd		4.7		4.5	4.7	4.5	4.7
	tion (30°C Pdc - 27/19)	kW	49.7	54.2	57.8	61.8	66.3	70.3
	C Condi- EERd		8.5	7.8	7.7	8.0	8.2	8.5
	tion (25°C Pdc - 27/19)	kW	319	34.8	37.2	39.7	42.6	45.2
	D Condi- EERd		12.1	13.0		15.6	11.3	13.8
	tion (20°C Pdc - 27/19)	kW	172	17.5	17.6	21.2	18.9	21.1
Space cooling recommended combination 3	A Condi- EERd		2.5	2.7	2.4		2.2	2.3
	tion (35°C Pdc - 27/19)	kW	674	73.5	78.5	83.9	90.0	95.4
	B Condi- EERd		4.7		4.6	4.8	4.5	4.7
	tion (30°C Pdc - 27/19)	kW	49.7	54.2	57.8	61.8	66.3	70.3
	C Condi- EERd		8.5	8.2	7.9	8.4	8.0	8.5
	tion (25°C Pdc - 27/19)	kW	319	34.8	37.2	39.7	42.6	45.2
	D Condi- EERd		12.4	13.4		16.0	11.3	13.9
	tion (20°C Pdc - 27/19)	kW	175	18.0	17.9	21.7	19.0	21.3
Space heating (Average climate)	TBivalent COPd (declared COP)		2.2			2.5	2.1	2.3
	Pdh (declared heating cap)	kW	36.9	39.0	41.6	46.3	46.4	51.1
	Tbiv (bivalent temperature)	°C	-10					
	TOL COPd (declared COP)		2.2			2.5	2.1	2.3
	Pdh (declared heating cap)	kW	36.9	39.0	41.6	46.3	46.4	51.1
	Tol (temperature operating limit)	°C	-10					
	A Con- COPd (declared COP)		2.7	2.8		2.9	2.7	2.8
	dition (-7°C) Pdh (declared heating cap)	kW	32.6	34.5	36.8	40.9	41.0	45.2
	B Condi- COPd (declared COP)		3.9	4.1			3.9	4.0
	tion (2°C) Pdh (declared heating cap)	kW	199	210	22.4	24.9	25.0	27.5
	C Condi- COPd (declared COP)		6.3	6.7	6.8	6.5		6.3
	tion (7°C) Pdh (declared heating cap)	kW	128	13.7	14.6	16.2	16.1	17.7
	D Con- COPd (declared COP)		7.0		7.2	9.4	7.4	8.0
	dition (12°C) Pdh (declared heating cap)	kW	5.7	6.0	6.4	7.7	7.1	8.2
Space heating (Average climate) recommended combination 2	A Con- COPd (declared COP)		2.6	2.8	2.7	2.9	2.6	2.8
	dition (-7°C) Pdh (declared heating cap)	kW	32.6	34.5	36.8	40.9	41.0	45.2
	B Condi- COPd (declared COP)		3.9	4.1	4.0	4.1	3.9	
	tion (2°C) Pdh (declared heating cap)	kW	199	210	22.4	24.9	25.0	27.5
	C Condi- COPd (declared COP)		6.2	6.5	6.7	6.4		6.2
	tion (7°C) Pdh (declared heating cap)	kW	128	13.6	14.5	16.2	16.1	17.7
	D Con- COPd (declared COP)		6.8	6.9	7.1	9.1	7.2	7.9
	dition (12°C) Pdh (declared heating cap)	kW	5.7	6.0	6.4	7.6	7.1	8.0
	TBivalent COPd (declared COP)		2.1	2.2		2.4	2.1	2.3
	TBivalent Pdh (declared heating cap)	kW	36.9	39.0	41.6	46.3	46.4	51.1
Space heating (Average climate) recommended combination 2	Tbiv (bivalent temperature)	°C	-10					
	TOL COPd (declared COP)		2.1	2.2		2.4	2.1	2.3
	Pdh (declared heating cap)	kW	36.9	39.0	41.6	46.3	46.4	51.1
	Tol (temperature operating limit)	°C	-10					

2 Specifications

1 - 1 REYQ-U

2

Technical specifications System					REYQ24U	REYQ26U	REYQ28U	REYQ30U	REYQ32U	REYQ34U	
Space heating (Average climate) recommended combination 3	A Con- dition (-7°C)	COPd (declared COP)			2.6	2.7		2.8	2.6	2.7	
		Pd _h (declared heating cap) kW			32.6	34.5	36.8	40.9	41.0	45.2	
	B Condi- tion (2°C)	COPd (declared COP)			3.8	4.0	3.9	4.0	3.8		
		Pd _h (declared heating cap) kW			199	210	22.4	24.9	25.0	27.5	
	C Condi- tion (7°C)	COPd (declared COP)			6.0	6.4	6.5	6.2		6.0	
		Pd _h (declared heating cap) kW			128	13.5	14.4	16.0	16.1	17.7	
	D Con- dition (12°C)	COPd (declared COP)			6.7	6.6	6.9	9.1	7.0	7.4	
		Pd _h (declared heating cap) kW			5.7	6.0	6.4	7.4	7.1	7.9	
	TBivalent	COPd (declared COP)			2.1	2.2		2.4	2.1	2.3	
		Pd _h (declared heating cap) kW			36.9	39.0	41.6	46.3	46.4	51.1	
		Tbiv (bivalent temperature) °C			-10						
	TOL	COPd (declared COP)			2.1	2.2		2.4	2.1	2.3	
		Pd _h (declared heating cap) kW			36.9	39.0	41.6	46.3	46.4	51.1	
		Tol (temperature operating limit) °C			-10						
	Capacity range HP				24	26	28	30	32	34	
	PED	Category				Category II					
	Maximum number of connectable indoor units				64 (3)						
Indoor index connection	Min.				300.0	325.0	350.0	375.0	400.0	425.0	
	Max.				780.0	845.0	910.0	975.0	1,040.0	1,105.0	
Heat exchanger	Indoor side				Air						
	Outdoor side				Air						
	Air flow rate	Cooling	Rated	m³/h	25,320	24,480	26,700	26,160	31,200	30,660	
		Heating	Rated	m³/h	25,320	24,480	26,700	26,160	31,200	30,660	
Sound power level	Cooling	Nom.		dBA	86.3 (4)	85.3 (4)	87.6 (4)	86.6 (4)	88.6 (4)	87.8 (4)	
	Heating	Prated,h		dBA	87.6 (4)	86.7 (4)	88.5 (4)	87.5 (4)	89.9 (4)	89.2 (4)	
Sound pressure level	Cooling	Nom.		dBA	64.0 (5)	63.5 (5)	65.1 (5)	64.5 (5)	66.0 (5)	65.5 (5)	
Refrigerant	Type				R-410A						
	GWP				2,087.5						
Refrigerant oil	Type				Synthetic (ether) oil FVC68D						
Piping connections	Liquid	Type	OD	mm	Braze connection						
					19.1						
Piping connections	Gas	Type	OD	mm	Braze connection						
					34.9						
	HP/LP gas	Type	OD	mm	Braze connection						
					28.6						
	Total piping length	System	Actual	m	1,000 (6)						
	Defrost method				Reversed cycle						
Capacity control	Method				Inverter controlled						
Indication if the heater is equipped with a supplementary heater				no							
Supplementary heater	Back-up capacity	Heating	elbu	kW	0.0						
Power consumption in other than active mode	Crank-case heater mode	Cooling	PCK	kW	0.000						
		Heating	PCK	kW	0.169		0.193		0.220	0.244	
	Off mode	Cooling	POFF	kW	0.172		0.170		0.240	0.238	
		Heating	POFF	kW	0.169		0.193		0.220	0.244	
	Standby mode	Cooling	PSB	kW	0.172		0.170		0.240	0.238	
		Heating	PSB	kW	0.169		0.193		0.220	0.244	
	Thermo-stat-off mode	Cooling	PTO	kW	0.009		0.016		0.013	0.019	
		Heating	PTO	kW	0.187		0.212		0.238	0.263	
	Cooling	Cdc (Degradation cooling)				0.25					
	Heating	Cdh (Degradation heating)				0.25					

Technical specifications System		REYQ36U	REYQ38U	REYQ40U	REYQ42U	REYQ44U	REYQ46U
System	Outdoor unit module 1	REYQ16U	REYQ8U	REYQ10U		REYQ12U	REYQ14U
	Outdoor unit module 2	REYQ20U	REYQ12U		REYQ16U		
	Outdoor unit module 3	-	REYQ18U		REYQ16U		
Recommended combination		2 x FXFQ50AVEB + 10 x FXFQ63AVEB + 2 x FXFQ80AVEB	6 x FXFQ50AVEB + 10 x FXFQ63AVEB	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

2 Specifications

1 - 1 REYQ-U

Technical specifications System					REYQ36U	REYQ38U	REYQ40U	REYQ42U	REYQ44U	REYQ46U
Recommended combination 2					2 x FXSQ50A2VEB + 10 x FXSQ63A2VEB + 2 x FXSQ80A2VEB	6 x FXSQ50A2VEB + 10 x FXSQ63A2VEB	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
Recommended combination 3					2 x FXMQ50P7VEB + 10 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	6 x FXMQ50P7VEB + 10 x FXMQ63P7VEB	9 x FXMQ50P7VEB + 9 x FXMQ63P7VEB	12 x FXMQ63P7VEB + 4 x FXMQ80P7VEB	6 x FXMQ50P7VEB + 8 x FXMQ63P7VEB + 4 x FXMQ80P7VEB	1 x FXMQ50P7VEB + 13 x FXMQ63P7VEB + 4 x FXMQ80P7VEB
Continuous heating					Yes					
Cooling capacity	Prated,c			kW	97.0 (1)	106.3 (1)	111.9 (1)	118.0 (1)	123.5 (1)	130.0 (1)
Heating capacity	Nom.	6°CWB		kW	101.0 (2)	106.3 (2)	111.9 (2)	118.0 (2)	123.5 (2)	130.0 (2)
	Prated,h			kW	101.0 (2)	106.4 (2)	111.9 (2)	118.0 (2)	123.5 (2)	130.0 (2)
	Max.	6°CWB		kW	113.0 (2)	119.0 (2)	125.5 (2)	131.5 (2)	137.5 (2)	145.0 (2)
Power input - 50Hz	Heating	Nom.	6°CWB	kW	30.02 (2)	29.27 (2)	31.46 (2)	32.66 (2)	34.73 (2)	35.77 (2)
COP at nom.	6°CWB			kW/kW	3.36 (2)	3.63 (2)	3.56 (2)	3.61 (2)	3.56 (2)	3.63 (2)
capacity										
ESEER - Automatic					6.06	6.66	6.68	6.79	6.68	6.75
ESEER - Standard					4.70	5.25	5.20	5.28	5.20	5.23
SCOP					4.2	4.5		4.3	4.4	4.3
SCOP recommended combination 2					4.2	4.4		4.2	4.3	4.2
SCOP recommended combination 3					4.1	4.3		4.1	4.2	4.1
SEER					6.5	6.8	6.6	6.3		6.2
SEER recommended combination 2					6.5	6.6		6.4	6.3	
SEER recommended combination 3					6.5	6.9	6.7	6.3		6.2
ηs,c				%	255.3	269.2	259.6	250.2	249.3	246.8
ηs,c recommended combination 2					257.6	263.0	259.5	252.5	247.1	248.8
ηs,c recommended combination 3					255.8	271.4	263.1	249.6	249.0	246.9
ηs,h				%	166.3	176.0	176.1	167.8	171.9	168.8
ηs,h recommended combination 2					164.2	172.4	173.4	165.4	168.7	165.9
ηs,h recommended combination 3					160.0	170.3	170.1	161.9	165.4	161.5
Space cooling	A Condi-	EERd			2.3	2.5		2.3		2.4
	tion (35°C	Pdc		kW	97.0	106.3	111.9	118.0	123.5	130.0
	- 27/19)									
	B Condi-	EERd		kW	4.7	4.9		4.7	4.6	
	tion (30°C	Pdc		kW	71.5	78.3	82.5	86.9	91.0	95.8
	- 27/19)									
	C Condi-	EERd			8.2	8.4	8.0		7.9	8.1
	tion (25°C	Pdc		kW	45.9	50.4	53.0	55.9	58.5	61.6
	- 27/19)									
	D Condi-	EERd			13.6	14.9	12.6	12.3	12.7	11.2
	tion (20°C	Pdc		kW	23.1	30.8	23.6	24.8	26.0	27.4
	- 27/19)									
Space cooling recommended combination 2	A Condi-	EERd			2.3	2.5		2.4	2.3	2.4
	tion (35°C	Pdc		kW	97.0	106.3	111.9	118.0	123.5	130.0
	- 27/19)									
	B Condi-	EERd		kW	4.7	4.8		4.7	4.5	4.6
	tion (30°C	Pdc		kW	71.5	78.3	82.5	86.9	91.0	95.8
	- 27/19)									
Space cooling recommended combination 2	C Condi-	EERd		kW	8.4	8.2	8.0	8.2	7.9	8.3
	tion (25°C	Pdc		kW	45.9	50.3	53.0	55.9	58.5	61.6
	- 27/19)									
	D Condi-	EERd		kW	13.8	14.5	12.9	12.4	12.5	11.4
	tion (20°C	Pdc		kW	23.1	30.5	23.6	24.8	26.0	27.4
	- 27/19)									
Space cooling recommended combination 3	A Condi-	EERd		kW	2.3	2.5		2.3		2.4
	tion (35°C	Pdc		kW	97.0	106.3	111.9	118.0	123.5	130.0
	- 27/19)									
	B Condi-	EERd		kW	4.6	4.9		4.6	4.5	4.6
	tion (30°C	Pdc		kW	71.5	78.3	82.5	87.0	91.0	95.8
	- 27/19)									
Space cooling recommended combination 3	C Condi-	EERd		kW	8.3	8.6	8.3	8.0		8.2
	tion (25°C	Pdc		kW	45.9	50.4	53.0	55.9	58.5	61.6
	- 27/19)									
	D Condi-	EERd		kW	13.8	14.9	12.9	12.4	12.8	11.4
	tion (20°C	Pdc		kW	23.0	31.2	23.6	24.8	26.0	27.4
	- 27/19)									

2 Specifications

1 - 1 REYQ-U

2

Technical specifications System					REYQ36U	REYQ38U	REYQ40U	REYQ42U	REYQ44U	REYQ46U	
Space heating (Average climate)	TBivalent	COPd (declared COP)			2.3	2.4		2.1	2.2	2.1	
		Pdh (declared heating cap)		kW	54.2	60.0	62.3	62.4	64.8	670	
		Tbiv (bivalent temperature) °C			-10						
	TOL	COPd (declared COP)			2.3	2.4		2.1	2.2	2.1	
		Pdh (declared heating cap)		kW	54.2	60.0	62.3	62.4	64.8	670	
		Tol (temperature operating limit)			-10						
	A Con- dition (-7°C)	COPd (declared COP)			2.7	2.8		2.6	2.7		
		Pdh (declared heating cap)		kW	479	53.0	55.1	55.2	57.3	59.3	
	B Condi- tion (2°C)	COPd (declared COP)			3.8	4.1			4.0		
		Pdh (declared heating cap)		kW	29.2	32.3	33.5	33.6	34.9	36.1	
C Condi- tion (7°C)	COPd (declared COP)			6.3	6.4			6.7			
	Pdh (declared heating cap)		kW	18.8	219			218	22.6	23.2	
D Con- dition (12°C)	COPd (declared COP)			8.0	8.7	8.6	6.9				
	Pdh (declared heating cap)		kW	8.3	9.2	9.6	110				
Space heating (Average climate) recommended combination 2	A Con- dition (-7°C)	COPd (declared COP)			2.7	2.8		2.6	2.7		
		Pdh (declared heating cap)		kW	479	53.0	55.1	55.2	57.3	59.3	
	B Condi- tion (2°C)	COPd (declared COP)			3.8	4.0			3.9		
		Pdh (declared heating cap)		kW	29.2	32.3	33.5	33.6	34.9	36.1	
	C Condi- tion (7°C)	COPd (declared COP)			6.2	6.3			6.5		
		Pdh (declared heating cap)		kW	18.8	218			217	22.6	23.2
	D Con- dition (12°C)	COPd (declared COP)			7.8	8.4	8.3	6.7			
		Pdh (declared heating cap)		kW	8.3	9.2	9.6	10.6			
Space heating (Average climate) recommended combination 2	TBivalent	COPd (declared COP)			2.2	2.4		2.1			
		Pdh (declared heating cap)		kW	54.2	60.0	62.3	62.4	64.8	670	
		Tbiv (bivalent temperature) °C			-10						
	TOL	COPd (declared COP)			2.2	2.4		2.1			
		Pdh (declared heating cap)		kW	54.2	60.0	62.3	62.4	64.8	670	
		Tol (temperature operating limit)			-10						
Space heating (Average climate) recommended combination 3	A Con- dition (-7°C)	COPd (declared COP)			2.6	2.8	2.7	2.6			
		Pdh (declared heating cap)		kW	479	53.1	55.1	55.2	57.3	59.3	
	B Condi- tion (2°C)	COPd (declared COP)			3.7	4.0			3.8	3.9	3.8
		Pdh (declared heating cap)		kW	29.2	32.3	33.5	33.6	34.9	36.1	
	C Condi- tion (7°C)	COPd (declared COP)			6.0	6.1			6.2	6.4	6.1
		Pdh (declared heating cap)		kW	18.8	20.8	21.6	21.7	22.4	23.2	
	D Con- dition (12°C)	COPd (declared COP)			7.4	8.4	8.3	6.5			
		Pdh (declared heating cap)		kW	8.3	9.2	9.6	10.2			
	TBivalent	COPd (declared COP)			2.2	2.4	2.3	2.1			
		Pdh (declared heating cap)		kW	54.2	60.0	62.3	62.4	64.8	670	
		Tbiv (bivalent temperature) °C			-10						
	TOL	COPd (declared COP)			2.2	2.4	2.3	2.1			
		Pdh (declared heating cap)		kW	54.2	60.0	62.3	62.4	64.8	670	
		Tol (temperature operating limit)			-10						
Capacity range				HP	36	38	40	42	44	46	
PED				Category	Category II						
Maximum number of connectable indoor units					64 (3)						
Indoor index connection	Min.				450.0	475.0	500.0	525.0	550.0	575.0	
	Max.				1,170.0	1,235.0	1,300.0	1,365.0	1,430.0	1,495.0	
Heat exchanger	Indoor side				Air						
	Outdoor side				Air						
	Air flow rate	Cooling	Rated	m³/h	31,260	35,880	36,660	41,700	42,300	44,580	
		Heating	Rated	m³/h	31,260	35,880	36,660	41,700	42,300	44,580	
Sound power level	Cooling	Nom.	dBA	89.9 (4)	87.2 (4)	87.3 (4)	89.1 (4)	89.8 (4)	89.3 (4)		
	Heating	Prated,h	dBA	91.6 (4)	90.7 (4)	88.4 (4)	90.4 (4)	90.8 (4)	90.9 (4)		
Sound pressure level	Cooling	Nom.	dBA	67.1 (5)	65.2 (5)			66.5 (5)	67.2 (5)	67.0 (5)	
Refrigerant	Type				R-410A						
	GWP				2,087.5						
Refrigerant oil	Type				Synthetic (ether) oil FVC68D						
Piping connections	Liquid	Type				Brazed connection					
		OD				19.1					

2 Specifications

1 - 1 REYQ-U

Technical specifications System					REYQ36U	REYQ38U	REYQ40U	REYQ42U	REYQ44U	REYQ46U
Piping connections	Gas	Type				Braze connection				
		OD	mm			413				
	HP/LP	Type				Braze connection				
	gas	OD	mm			28.6	34.9			
	Total piping length	System	Actual	m	1,000 (6)					
Defrost method					Reversed cycle					
Capacity control	Method				Inverter controlled					
Indication if the heater is equipped with a supplementary heater					no					
Supplementary heater	Back-up capacity	Heating	elbu	kW	0.0					
Power consumption in other than active mode	Crank-case heater mode	Cooling	PCK	kW	0.000					
		Heating	PCK	kW	0.244	0.252		0.279		0.330
	Off mode	Cooling	POFF	kW	0.238	0.223		0.292		0.360
		Heating	POFF	kW	0.244	0.252		0.279		0.330
	Standby mode	Cooling	PSB	kW	0.238	0.223		0.292		0.360
		Heating	PSB	kW	0.244	0.252		0.279		0.330
	Thermo-stat-off mode	Cooling	PTO	kW	0.019			0.016		0.019
		Heating	PTO	kW	0.263	0.279		0.306		0.357
	Cooling	Cdc (Degradation cooling)				0.25				
Heating	Cdh (Degradation heating)				0.25					

Technical specifications System					REYQ48U	REYQ50U	REYQ52U	REYQ54U
System	Outdoor unit module 1				REYQ16U			REYQ18U
	Outdoor unit module 2				REYQ16U		REYQ18U	
	Outdoor unit module 3				REYQ16U	REYQ18U		
Recommended combination					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					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
Recommended combination 3					12 x FXMQ63P7VEB + 6 x FXMQ80P7VEB	3 x FXMQ50P7VEB + 13 x FXMQ63P7VEB + 4 x FXMQ80P7VEB	6 x FXMQ50P7VEB + 14 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	9 x FXMQ50P7VEB + 15 x FXMQ63P7VEB
Continuous heating					Yes			
Cooling capacity	Prated,c		kW		135.0 (1)	140.4 (1)	145.8 (1)	151.2 (1)
Heating capacity	Nom. 6°CWB		kW		135.0 (2)	140.4 (2)	145.8 (2)	151.2 (2)
	Prated,h		kW		135.0 (2)	140.4 (2)	145.8 (2)	151.2 (2)
	Max. 6°CWB		kW		150.0 (2)	156.5 (2)	163.0 (2)	169.5 (2)
Power input - 50Hz	Heating	Nom.	6°CWB	kW	37.62 (2)	39.30 (2)	40.98 (2)	42.66 (2)
COP at nom. capacity	6°CWB		kW/kW		3.59 (2)	3.57 (2)	3.56 (2)	3.54 (2)
ESEER - Automatic					6.63	6.49	6.37	6.26
ESEER - Standard					5.14	5.03	4.93	4.84
SCOP					4.3		4.4	
SCOP recommended combination 2					4.2	4.3		
SCOP recommended combination 3					4.1	4.2		
SEER					6.2	6.4	6.7	7.0
SEER recommended combination 2					6.2	6.5	6.7	7.0
SEER recommended combination 3					6.1	6.4	6.7	7.0
ηs,c	%				243.1	254.4	265.7	275.2
ηs,c recommended combination 2	%				244.5	255.9	267.0	276.7
ηs,c recommended combination 3	%				241.7	254.5	266.8	276.7
ηs,h	%				168.5	170.3	171.7	173.3
ηs,h recommended combination 2	%				165.3	167.5	169.3	170.8
ηs,h recommended combination 3	%				161.5	163.0	164.3	165.5
Space cooling	A Condi- tion (35°C Pdc - 27/19)	EERd	kW	2.2	2.3		2.4	
				135.0	140.4	145.8		
	B Condi- tion (30°C Pdc - 27/19)	EERd	kW	4.6	4.7	4.8	5.0	
				99.5	103.5	107.4	111.4	
	C Condi- tion (25°C Pdc - 27/19)	EERd	kW	8.1	8.3	8.4	8.6	
				64.0	66.5	69.1	71.6	
D Condi- tion (20°C Pdc - 27/19)	EERd	kW	11.2	13.0	15.0	16.7		
			28.4	29.6	30.7	34.7		

2 Specifications

1 - 1 REYQ-U

2

Technical specifications System			REYQ48U	REYQ50U	REYQ52U	REYQ54U
Space cooling recommended combination 2	A Condi- tion (35°C - 27/19)	EERd	2.2	2.3		2.4
	A Condi- tion (35°C - 27/19)	Pdc kW	135.0	140.4	145.8	151.2
	B Condi- tion (30°C - 27/19)	EERd	4.5	4.7	4.8	4.9
	B Condi- tion (30°C - 27/19)	Pdc kW	99.5	103.4	107.4	111.4
	C Condi- tion (25°C - 27/19)	EERd	8.2	8.4	8.6	8.8
	C Condi- tion (25°C - 27/19)	Pdc kW	63.9	66.5	69.1	71.6
Space cooling recommended combination 3	D Condi- tion (20°C - 27/19)	EERd	11.3	13.1	15.0	16.7
	D Condi- tion (20°C - 27/19)	Pdc kW	28.4	29.6	31.2	34.9
	A Condi- tion (35°C - 27/19)	EERd	2.2	2.3		2.4
	A Condi- tion (35°C - 27/19)	Pdc kW	135.0	140.4	145.8	151.2
	B Condi- tion (30°C - 27/19)	EERd	4.5	4.6	4.8	4.9
	B Condi- tion (30°C - 27/19)	Pdc kW	99.5	103.5	107.4	111.4
Space heating (Average climate)	C Condi- tion (25°C - 27/19)	EERd	8.0	8.3	8.6	8.8
	C Condi- tion (25°C - 27/19)	Pdc kW	63.9	66.5	69.1	71.6
	D Condi- tion (20°C - 27/19)	EERd	11.3	13.2	15.2	16.8
	D Condi- tion (20°C - 27/19)	Pdc kW	28.4	29.6	31.7	35.4
	TBivalent	COPd (declared COP)	2.1	2.3	2.4	2.6
		Pdh (declared heating cap) kW	69.6	74.3	79.0	83.7
		Tbiv (bivalent temperature) °C	-10			
	TOL	COPd (declared COP)	2.1	2.3	2.4	2.6
		Pdh (declared heating cap) kW	69.6	74.3	79.0	83.7
		Tol (temperature operating limit) °C	-10			
	A Con- dition (-7°C)	COPd (declared COP)	2.7	2.8		2.9
	A Con- dition (-7°C)	Pdh (declared heating cap) kW	61.5	65.7	69.9	74.0
	B Condi- tion (2°C)	COPd (declared COP)	3.9	4.0		4.1
	B Condi- tion (2°C)	Pdh (declared heating cap) kW	37.5	40.0	42.6	45.1
	C Condi- tion (7°C)	COPd (declared COP)	6.5	6.4	6.3	6.2
	C Condi- tion (7°C)	Pdh (declared heating cap) kW	24.1	25.7	27.3	29.0
	D Con- dition (12°C)	COPd (declared COP)	6.9	7.6		8.0
	D Con- dition (12°C)	Pdh (declared heating cap) kW	11.0	13.7		16.3
Space heating (Average climate) recommended combination 2	A Con- dition (-7°C)	COPd (declared COP)	2.6	2.7	2.8	2.9
	A Con- dition (-7°C)	Pdh (declared heating cap) kW	61.6	65.7	69.9	74.0
	B Condi- tion (2°C)	COPd (declared COP)	3.9		4.0	
	B Condi- tion (2°C)	Pdh (declared heating cap) kW	37.5	40.0	42.5	45.1
	C Condi- tion (7°C)	COPd (declared COP)	6.4	6.2	6.1	6.0
	C Condi- tion (7°C)	Pdh (declared heating cap) kW	24.1	25.7	27.3	29.0
Space heating (Average climate) recommended combination 2	D Con- dition (12°C)	COPd (declared COP)	6.7	7.3		7.9
	D Con- dition (12°C)	Pdh (declared heating cap) kW	10.7	13.3		16.0
	TBivalent	COPd (declared COP)	2.1	2.2	2.4	2.5
		Pdh (declared heating cap) kW	69.6	74.3	79.0	83.7
		Tbiv (bivalent temperature) °C	-10			
	TOL	COPd (declared COP)	2.1	2.2	2.4	2.5
Space heating (Average climate) recommended combination 2		Pdh (declared heating cap) kW	69.6	74.3	79.0	83.7
		Tol (temperature operating limit) °C	-10			

2 Specifications

1 - 1 REYQ-U

Technical specifications System					REYQ48U		REYQ50U		REYQ52U		REYQ54U		
Space heating (Average climate) recommended combination 3	A Con- dition (-7°C)	COPd (declared COP)			2.6		2.7				2.8		
		Pdh (declared heating cap) kW			616		65.7		69.9		74.0		
	B Condi- tion (2°C)	COPd (declared COP)			3.8				3.9				
		Pdh (declared heating cap) kW			37.5		40.0		42.5		45.1		
	C Condi- tion (7°C)	COPd (declared COP)			6.2		6.1		5.9		5.8		
		Pdh (declared heating cap) kW			24.1		25.7		27.3		29.0		
	D Con- dition (12°C)	COPd (declared COP)			6.6		7.0				7.4		
		Pdh (declared heating cap) kW			10.7		12.7				15.2		
	TBivalent	COPd (declared COP)			2.1		2.2		2.3		2.5		
		Pdh (declared heating cap) kW			69.6		74.3		79.0		83.7		
		Tbiv (bivalent temperature) °C					-10						
	TOL	COPd (declared COP)			2.1		2.2		2.3		2.5		
		Pdh (declared heating cap) kW			69.6		74.3		79.0		83.7		
		Tol (temperature operating limit) °C					-10						
Capacity range				HP		48		50		52		54	
PED	Category				Category II								
Maximum number of connectable indoor units					64 (3)								
Indoor index connection	Min.				600.0		625.0		650.0		675.0		
	Max.				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	46,800	46,260		45,720		45,180			
		Heating	Rated	m³/h	46,800	46,260		45,720		45,180			
Sound power level	Cooling	Nom.		dBA	90.4 (4)	89.8 (4)		89.3 (4)		88.6 (4)			
	Heating	Prated,h		dBA	91.7 (4)	91.2 (4)		90.7 (4)		90.1 (4)			
Sound pressure level	Cooling	Nom.		dBA	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	Brazing connection											
		OD			mm			19.1					
Piping connections Gas	Type	Brazing connection											
		OD			mm			41.3					
	HP/LP gas	Brazing connection											
		OD			mm			34.9					
	Total piping length	System	Actual	m	1,000 (6)								
Defrost method					Reversed cycle								
Capacity control	Method				Inverter controlled								
Indication if the heater is equipped with a supplementary heater					no								
Supplementary heater	Back-up capacity	Heating	elbu	kW	0.0								
Power consumption in other than active mode	Crank-case heater mode	Cooling	PCK	kW	0.000								
		Heating	PCK	kW	0.330	0.354		0.379		0.403			
	Off mode	Cooling	POFF	kW	0.360	0.358		0.356		0.354			
		Heating	POFF	kW	0.330	0.354		0.379		0.403			
	Standby mode	Cooling	PSB	kW	0.360	0.358		0.356		0.354			
		Heating	PSB	kW	0.330	0.354		0.379		0.403			
	Thermo-stat-off mode	Cooling	PTO	kW	0.019	0.025		0.031		0.037			
		Heating	PTO	kW	0.357	0.382		0.406		0.431			
Cooling	Cdc (Degradation cooling)				0.25								
Heating	Cdh (Degradation heating)				0.25								
Electrical specifications System					REYQ10U		REYQ13U	REYQ16U	REYQ18U	REYQ20U	REYQ22U		
Power supply	Name				Y1								
	Phase				3N~								
	Frequency				Hz			50					
	Voltage				V			380-415					
Power supply intake					Both indoor and outdoor unit								
Voltage range	Min.				-10								
	Max.				10								
Current	Nominal running current (RI A)	Cooling		A	8.2 (7)	11.8 (7)	15.4 (7)	18.2 (7)	21.5 (7)	24.3 (7)			

2 Specifications

1 - 1 REYQ-U

2

Electrical specifications System				REYQ10U	REYQ13U	REYQ16U	REYQ18U	REYQ20U	REYQ22U
Current - 50Hz	Nominal running current (RLA)	Combina- tion A	Cooling	-					
		Combina- tion B	Cooling	-					
	Starting current (MSC) - remark			See note 8					
	Zmax	List		No requirements					
	Minimum Ssc value		kVa	5,786 (9)		6,846 (9)	7,206 (9)	8,266 (9)	
	Minimum circuit amps (MCA)		A	30.0 (10)		37.0 (10)	39.0 (10)	46.0 (10)	
	Maximum fuse amps (MFA)		A	40 (11)		50 (11)		63 (11)	
Power Performance	Power factor	Combina- tion B	35°C ISO - Full load	-					
			46°C ISO - Full load	-					
Wiring connections - 50Hz	For power supply	Quantity		5G					
	For connection with indoor	Quantity		2					
		Remark		F1F2					

Electrical specifications System			REYQ24U	REYQ26U	REYQ28U	REYQ30U	REYQ32U	REYQ34U
Power supply	Name		Y1					
	Phase		3N~					
	Frequency	Hz	50					
	Voltage	V	380-415					
Power supply intake			Both indoor and outdoor unit					
Voltage range	Min.	%	-10					
	Max.	%	10					
Current	Nominal running current (RLA)	Cooling A	26.2 (7)	29.4 (7)	32.3 (7)	35.8 (7)	37.0 (7)	40.5 (7)
Current - 50Hz	Nominal running current (RLA)	Combina- Cooling tion A	-					
		Combina- Cooling tion B	-					
	Starting current (MSC) - remark		See note 8					
	Zmax	List	No requirements					
	Minimum Ssc value kVa		8,284 (9)	9,165 (9)	9,704 (9)	10,602 (9)	10,781 (9)	11,680 (9)
	Minimum circuit amps (MCA) A		46.0 (10)	51.0 (10)	55.0 (10)	59.0 (10)	62.0 (10)	66.0 (10)
	Maximum fuse amps (MFA) A		63 (11)		80 (11)			
Power Performance	Power factor	Combina- 35°C ISO - Full load tion B 46°C ISO - Full load	-					
			-					
Wiring connections - 50Hz	For power supply	Quantity	5G					
	For connec- tion with indoor	Quantity	2					
		Remark	F1F2					

Electrical specifications System			REYQ36U	REYQ38U	REYQ40U	REYQ42U	REYQ44U	REYQ46U
Power supply	Name		Y1					
	Phase		3N~					
	Frequency	Hz	50					
	Voltage	V	380-415					
Power supply intake			Both indoor and outdoor unit					
Voltage range	Min.	%	-10					
	Max.	%	10					
Current	Nominal running current (RLA)	Cooling A	470 (7)	43.5 (7)	46.3 (7)	47.5 (7)	50.8 (7)	52.6 (7)
Current - 50Hz	Nominal running current (RLA)	Combina- Cooling tion A	-					
		Combina- Cooling tion B	-					
	Starting current (MSC) - remark		See note 8					
	Zmax List		No requirements					
	Minimum Ssc value kVa		12,399 (9)	13,495 (9)	14,556 (9)	14,735 (9)	15,094 (9)	15,634 (9)
	Minimum circuit amps (MCA) A		70.0 (10)	74.0 (10)	810 (10)	84.0 (10)	86.0 (10)	89.0 (10)
	Maximum fuse amps (MFA) A		80 (11)	100 (11)				
Power Performance	Power factor	Combina- 35°C ISO - Full load	-					
		tion B 46°C ISO - Full load	-					

2 Specifications

1 - 1 REYQ-U

Electrical specifications System			REYQ36U	REYQ38U	REYQ40U	REYQ42U	REYQ44U	REYQ46U
Wiring connections - 50Hz	For power supply	Quantity	5G					
	For connection with indoor	Quantity	2					
		Remark	F1F2					

Electrical specifications System			REYQ48U	REYQ50U	REYQ52U	REYQ54U
Power supply	Name		Y1			
	Phase		3N~			
	Frequency	Hz	50			
	Voltage	V	380-415			
Power supply intake			Both indoor and outdoor unit			
Voltage range	Min.	%	-10			
	Max.	%	10			
Current	Nominal running current (RLA)	Cooling A	55.5 (7)	59.0 (7)	62.5 (7)	66.0 (7)
	Nominal running current (RLA)	Combina- Cooling tion A	-			
Current - 50Hz	Nominal running current (RLA)	Combina- Cooling tion B	-			
	Starting current (MSC) - remark		See note 8			
Power Performance	Zmax List		No requirements			
	Minimum Ssc value	kVa	16,172 (9)	17,071 (9)	17,969 (9)	18,868 (9)
	Minimum circuit amps (MCA)	A	93.0 (10)	97.0 (10)	101.0 (10)	105.0 (10)
	Maximum fuse amps (MFA)	A	125 (11)			
	Power factor	Combina- 35°C ISO - Full load	-			
Wiring connections - 50Hz	For power supply	Quantity	5G			
	For connection with indoor	Quantity	2			
		Remark	F1F2			

Technical specifications Module			REM5U
Cooling capacity	Prated,c	kW	14.0 (1)
Heating capacity	Max.	6°CWB	16.0 (2)
Capacity range		HP	5
PED	Category		Category II
	Most critical part	Name	Liquid receiver
		Ps*V	564
Maximum number of connectable indoor units			64 (3)
Indoor index connection	Min.		62.5
	Max.		162.5
Dimensions	Unit	Height	1,685
		Width	930
		Depth	765
	Packed unit	Height	1,820
		Width	995
		Depth	860
Weight	Unit	kg	230
	Packed unit	kg	243
Packing	Material		Carton
	Weight	kg	18
Packing 2	Material		Wood
	Weight	kg	110
Packing 3	Material		Plastic
	Weight	kg	0.5
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	9,720
		Heating Rated	9,720

2 Specifications

1 - 1 REYQ-U

2

Technical specifications Module				REMQ5U
Fan	Quantity			1
	External static pressure	Max.	Pa	78
Fan motor	Quantity			1
	Type			DC motor
	Output		W	550
Compressor	Quantity			1
Compressor	Type			Hermetically sealed scroll compressor
	Crankcase heater		W	33
Operation range	Cooling	Min.	°CDB	-5.0
		Max.	°CDB	43.0
	Heating	Min.	°CWB	-20.0
		Max.	°CWB	15.5
Sound power level	Cooling	Nom.	dBA	78.0 (4)
	Heating	Prated,h	dBA	79.6 (4)
Sound pressure level	Cooling	Nom.	dBA	57.0 (5)
Refrigerant	Type			R-410A
	GWP			2,087.5
	Charge		TCO2Eq	20.2
	Charge		kg	9.7
Refrigerant oil	Type			Synthetic (ether) oil FVC68D
Piping connections	Liquid	Type		Braze connection
		OD	mm	9.5
	Gas	Type		Braze connection
		OD	mm	19.1
	HP/LP gas	Type		Braze connection
		OD	mm	15.9
Defrost method				Reversed cycle
Capacity control	Method			Inverter controlled
Safety devices	Item	01		High pressure switch
		02		Fan driver overload protector
		03		Inverter overload protector
		04		PC board fuse
		05		Leakage current detector

Electrical specifications Module				REMQ5U
Power supply	Name			Y1
	Phase			3N~
	Frequency		Hz	50
	Voltage		V	380-415
Power supply intake				Both indoor and outdoor unit
Voltage range	Min.		%	-10
	Max.		%	10
Current	Nominal running current (RLA)	Cooling	A	4.1 (7)
Current - 50Hz	Nominal running current (RLA)	Combina- tion A	Cooling	-
		Combina- tion B	Cooling	-
	Starting current (MSC) - remark			See note 8
	Zmax	List		No requirements
	Minimum Ssc value		kVa	2,893 (9)
	Minimum circuit amps (MCA)		A	16.1 (10)
	Maximum fuse amps (MFA)		A	20 (11)
	Full load amps (FLA)	Total	A	12 (12)
Power Performance	Power factor	Combina- tion B	35°C ISO - Full load	-
			46°C ISO - Full load	-
Wiring connections - 50Hz	For power supply	Quantity		5G
	For connection with indoor	Quantity		2
		Remark		F1F2

(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 and the connection ratio restriction for the system (50% ≤ CR ≤ 120%) |

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

2 Specifications

1 - 1 REYQ-U

- (5) Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings. |
- (6) Refer to refrigerant pipe selection or installation manual |
- (7) RLA is based on following conditions: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB |
- (8) MSC means the maximum current during start up of the compressor. This unit uses only inverter compressors. Starting current is always $\leq$ max. running current. |
- (9) In accordance with EN/IEC 61000-3-12, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with $S_{sc} \geq$ minimum S_{sc} value |
- (10) MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current. |
- (11) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). |
- (12) FLA means the nominal running current of the fan |
- (13) Maximum allowable voltage range variation between phases is 2%. |
- (14) Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits. |
- (15) The AUTOMATIC ESEER value corresponds with normal VRV4 Heat Recovery operation, taking into account advanced energy saving operation functionality (variable refrigerant temperature control operation) |
- (16) The STANDARD ESEER value corresponds with normal VRV4 Heat Recovery operation, not taking into account advanced energy saving operation functionality |
- (17) Sound values are measured in a semi-anechoic room. |
- (18) Sound pressure system [dBA] = $10 \cdot \log[10^{A/10} + 10^{B/10} + 10^{C/10}]$, with Unit A = A dBA, Unit B = B dBA, Unit C = C dBA |
- (19) EN/IEC 61000-3-12: European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current $> 16A$ and $\leq 75A$ per phase |
- (20) S_{sc} : Short-circuit power |
- (21) For detailed contents of standard accessories, see installation/operation manual |
- (22) Multi combination (10~54HP) data is corresponding with the standard multi combination

3 Options

3 - 1 Options

3

REMQU
REYQU
VRV4
Heat recovery
Option list

Description	Option	REMQU5*	REYQU8*	REYQU10*	REYQU12*	REYQU14*	REYQU16*	REYQU18*	REYQU20*	Multi -2-	Multi -3-
Low ambient option	EKBPH012T7A (*1)	o	o	o	o	-	-	-	-	o	o
Bottom plate heater	EKBPH020T7A (*1)	-	-	-	-	o	o	o	o	o	o
PC cable kit	EKPCCAB2	o	o	o	o	o	o	o	o	o	o
Refnet header	KHRQ23M29H	o	o	o	o	o	o	o	o	o	o
	KHRQ23M64H	-	-	-	o	o	o	o	o	o	o
Refnet joint	KHRQ23M75H	-	-	-	-	-	-	-	-	o	o
	KHRQ23M20T	o	o	o	o	o	o	o	o	o	o
	KHRQ23M29T9	o	o	o	o	o	o	o	o	o	o
	KHRQ23M64T	-	-	-	o	o	o	o	o	o	o
Outdoor multi-connection kit	KHRQ23M75T	-	-	-	-	-	-	-	-	o	o
	BHFQ23P907	-	-	-	-	-	-	-	-	o	-
Single -BSVQ- unit (*2) (*3)	BHFQ23P1357	-	-	-	-	-	-	-	-	-	o
	BS1Q10A	o	o	o	o	o	o	o	o	o	o
	BS1Q16A	o	o	o	o	o	o	o	o	o	o
Multi -BS- unit	BS1Q25A	o	o	o	o	o	o	o	o	o	o
	BS4Q14A	o	o	o	o	o	o	o	o	o	o
	BS6Q14A	o	o	o	o	o	o	o	o	o	o
	BS8Q14A	o	o	o	o	o	o	o	o	o	o
	BS10Q14A	o	o	o	o	o	o	o	o	o	o
	BS12Q14A	o	o	o	o	o	o	o	o	o	o
	BS16Q14A	o	o	o	o	o	o	o	o	o	o

Notes

- One bottom plate heater per outdoor unit required.
- Sound reduction kit -EKBSVQLNP-
One sound reduction kit per -BSVQ- box required.
- Technical cooling is available.
- Multi-tenancy is available

3D119362

4 Combination table

4 - 1 Combination Table

REYQ-U

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· and ·FXAQ15A· cannot be used.

Remark

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

3D104665A

REMQ-U

REYQ-U

Indoor unit combination pattern	VRV indoor unit	VRV indoor unit Cooling only unit	LT Hydrobox unit	HT Hydrobox unit	AHU (*3)
VRV indoor unit	o	o	o	o	o
VRV indoor unit Cooling only unit	o	o	o	Not allowed	o
LT Hydrobox unit	o	o	o (*1)	o (*1)	Not allowed
HT Hydrobox unit	o	Not allowed	o (*1)	o (*1)	Not allowed
AHU (*3)	o	o	Not allowed	Not allowed	o (*2)

Notes

1. ·Hydroboxes· indoor units may not be used without a ·VRV· indoor unit
Refer to the connection ratio restrictions.
2. ·AHUs·/air curtains may not be used without a ·VRV· indoor unit.
Refer to the connection ratio restrictions.
3. The following units are considered AHUs:
 - 3.1 ·EKEXV + EKEQM + AHU· coil
 - 3.2 ·Biddle· air curtain
 - 3.3 ·FXMQ*MF· unit

3D088013

4 Combination table

4 - 1 Combination Table

REMQU
REYQ-U

VRV4

Heat recovery

Multi-unit standard combinations table

		5HP	8HP	10HP	12HP	14HP	16HP	18HP	20HP
Non-continuous heating	REMQU5* (*1)	1							
	REYQ8*		1						
	REYQ10*			1					
	REYQ12*				1				
	REYQ14*					1			
	REYQ16*						1		
	REYQ18*							1	
Continuous heating ·2- outdoor units	REYQ20*								1
	REYQ10*	2							
	REYQ13*	1	1						
	REYQ16*		2						
	REYQ18*		1	1					
	REYQ20*		1		1				
	REYQ22*			1	1				
	REYQ24*		1				1		
	REYQ26*				1	1			
	REYQ28*				1		1		
	REYQ30*				1			1	
	REYQ32*						2		
	REYQ34*						1	1	
	REYQ36*						1		1
Continuous heating ·3- outdoor units	REYQ38*		1		1			1	
	REYQ40*			1	1			1	
	REYQ42*			1			2		
	REYQ44*				1		2		
	REYQ46*					1	2		
	REYQ48*						3		
	REYQ50*						2	1	
	REYQ52*						1	2	
	REYQ54*							3	

Notes

1. The ·REMQU5*· unit cannot be used as a standalone unit and may only be used in standard combinations.
2. Standard and free combinations have different piping restrictions.
3. Never combine more than ·3· units to create a multi-combination.

3D088011

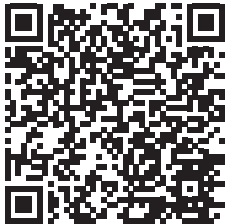
5 Capacity tables

5 - 1 Capacity Table Legend

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

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

- **Capacity table database:** lets you find back and export quickly the capacity information you are looking for based upon unit model, refrigerant temperature and connection ratio.
- You can access the capacity table viewer here:
https://my.daikin.eu/content/denv/en_US/home/applications/software-finder/capacity-table-viewer.html



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



5 Capacity tables

5 - 2 Integrated Heating Capacity Correction Factor

REM-Q-U
REYQ-U

5

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 $A = B \cdot C$

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

Inlet air temperature of heat exchanger

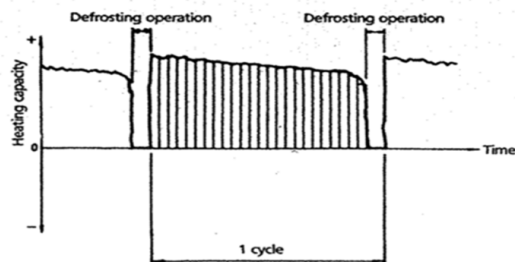
[°CDB/°CWB]	-7/-7,6	-5/-5,6	-3/-3,7	0/-0,7	3/2,2	5/4,1	7/6
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Integrated correction factor for frost accumulation (C)

For single unit installation	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
For multi-unit installation	10HP	0.95	0.93	0.88	0.84	0.85	0.90	1.00
	13HP	0.95	0.93	0.88	0.84	0.85	0.90	1.00
	16HP	0.95	0.93	0.88	0.84	0.85	0.90	1.00
	18HP	0.95	0.93	0.88	0.82	0.83	0.89	1.00
	20HP	0.95	0.93	0.88	0.80	0.81	0.88	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

1. The figure shows the integrated heating capacity for a single cycle (from one defrost operation to the next).
2. 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.
3. The multi-combination data -VRV4- corresponds with the standard multi-combination of drawing '3D088011'.

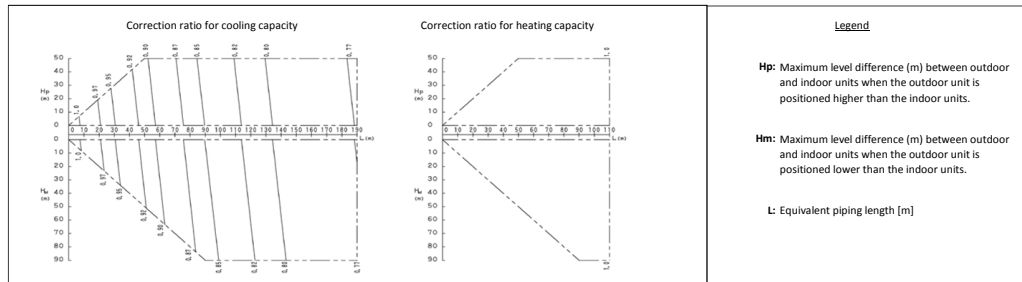


3D088034

5 Capacity tables

5 - 3 Capacity Correction Factor

REYQ8U
REYQ22U



Notes

- These figures illustrate the capacity correction factor due to the piping length 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, as shown in the above figures.

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 less.

Indoor connection ratio ≤ 100%

Maximum capacity of outdoor units = Capacity of outdoor units from capacity table at 100% connection ratio. X Correction ratio of piping to furthest indoor unit

Indoor connection ratio > 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 unit

Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
8HP	9.5	12.7
22HP	15.9	19.1

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

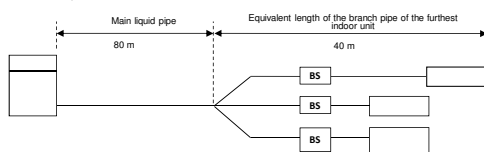
Overall equivalent length

Overall equivalent length = Equivalent length of the main pipe X Correction factor + Equivalent length of the branch pipes

Choose the correction factor from the following table.

Model	Correction ratio for cooling capacity		Correction ratio for heating capacity	
	Standard size	Size increase	Standard size	Size increase
8HP	1	0.5	1	0.2
22HP	1	0.5	1	0.4

Example -8HP-



Overall equivalent length

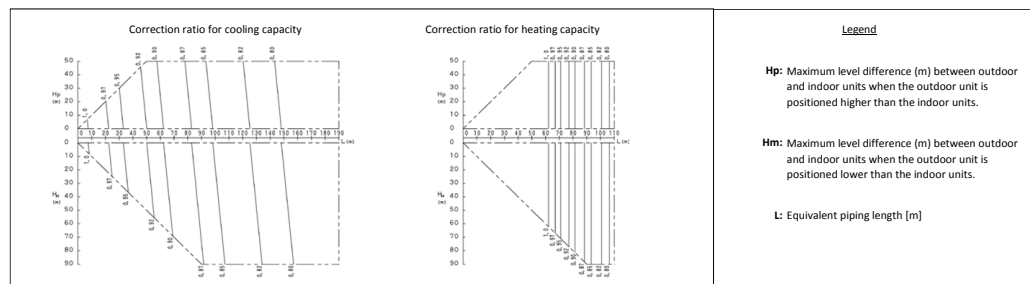
- Cooling mode = 80 m x 0.5 + 40 m = 80 m
- Heating mode = 80 m x 0.2 + 40 m = 56 m

Capacity correction ratio (height difference = 0)

- Cooling mode = 0.86
- Heating mode = 1.0

3D088033

REYQ10U



Notes

- These figures illustrate the capacity correction factor due to the piping length 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, as shown in the above figures.

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 less.

Indoor connection ratio ≤ 100%

Maximum capacity of outdoor units = Capacity of outdoor units from capacity table at 100% connection ratio. X Correction ratio of piping to furthest indoor unit

Indoor connection ratio > 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 unit

Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
10HP	9.5	12.7

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

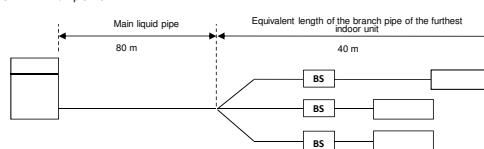
Overall equivalent length

Overall equivalent length = Equivalent length of the main pipe X Correction factor + Equivalent length of the branch pipes

Choose the correction factor from the following table.

Model	Correction ratio for cooling capacity		Correction ratio for heating capacity	
	Standard size	Size increase	Standard size	Size increase
10HP	1	0.5	1	0.2

Example -10HP-



Overall equivalent length

- Cooling mode = 80 m x 0.5 + 40 m = 80 m
- Heating mode = 80 m x 0.2 + 40 m = 56 m

Capacity correction ratio (height difference = 0)

- Cooling mode = 0.88
- Heating mode = 1.0

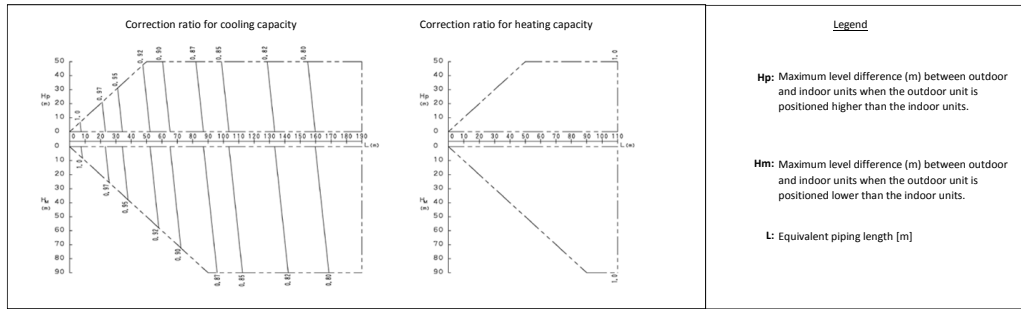
3D088033

5 Capacity tables

5 - 3 Capacity Correction Factor

5

REYQ12U
REYQ18U
REYQ26U
REYQ28U
REYQ30U
REYQ38U
REYQ40U
REYQ42U
REYQ44U



Notes

1. These figures illustrate the capacity correction factor due to the piping length 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, as shown in the above figures.

2. 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 less.

Indoor connection ratio ≤ 100%.

Maximum capacity of outdoor units = Capacity of outdoor units from capacity table at 100% connection ratio. X Correction ratio of piping to furthest indoor unit

Indoor connection ratio > 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 unit

3. Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
12HP	12.7	15.9
18HP	15.9	19.1
26+28+30+38+40+42+44HP	19.1	22.2

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

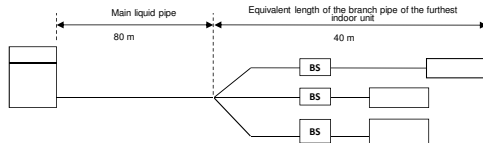
4. Overall equivalent length

Overall equivalent length = Equivalent length of the main pipe X Correction factor + Equivalent length of the branch pipes

Choose the correction factor from the following table.

Model	Correction ratio for cooling capacity		Correction ratio for heating capacity	
	Standard size	Size increase	Standard size	Size increase
12HP	1	0.5	1	0.3
18+26+28+30+38+40+42+44HP	1	0.5	1	0.4

5. Example -18HP-



Overall equivalent length

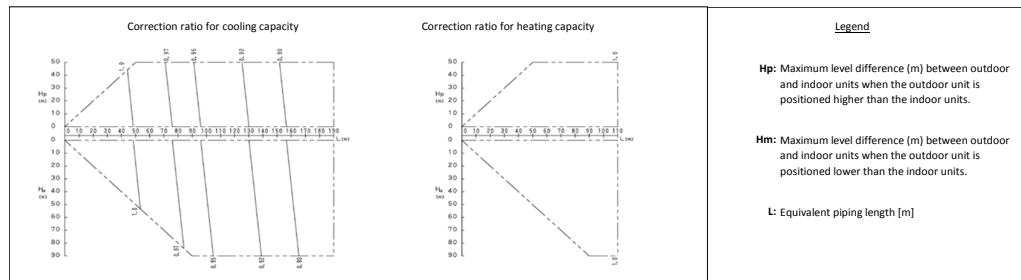
- Cooling mode = 80 m x 0.5 + 40 m = 80 m
- Heating mode = 80 m x 0.4 + 40 m = 72 m

Capacity correction ratio (height difference = 0)

- Cooling mode = 0.88
- Heating mode = 1.0

3D088033

REYQ13U
REYQ14U



Notes

1. These figures illustrate the capacity correction factor due to the piping length 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, as shown in the above figures.

2. 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 less.

Indoor connection ratio ≤ 100%.

Maximum capacity of outdoor units = Capacity of outdoor units from capacity table at 100% connection ratio. X Correction ratio of piping to furthest indoor unit

Indoor connection ratio > 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 unit

3. Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
13+14HP	12.7	15.9

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

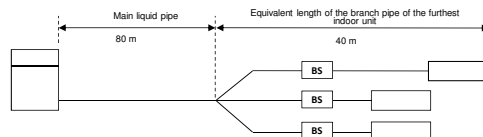
4. Overall equivalent length

Overall equivalent length = Equivalent length of the main pipe X Correction factor + Equivalent length of the branch pipes

Choose the correction factor from the following table.

Model	Correction ratio for cooling capacity		Correction ratio for heating capacity	
	Standard size	Size increase	Standard size	Size increase
13+14HP	1	0.5	1	0.3

5. Example -14HP-



Overall equivalent length

- Cooling mode = 80 m x 0.5 + 40 m = 80 m
- Heating mode = 80 m x 0.3 + 40 m = 64 m

Capacity correction ratio (height difference = 0)

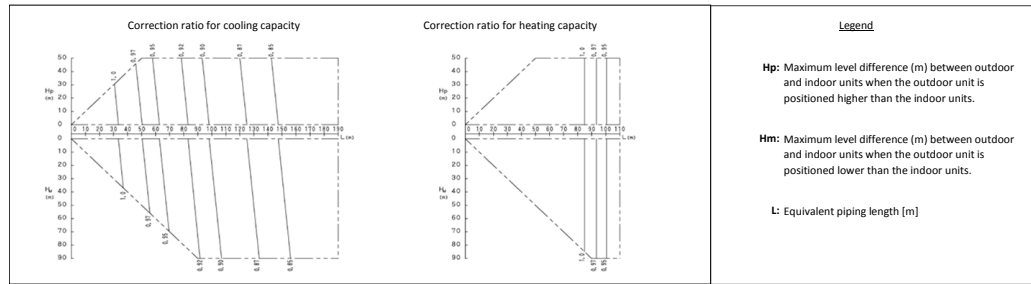
- Cooling mode = 0.96
- Heating mode = 1.0

3D088033

5 Capacity tables

5 - 3 Capacity Correction Factor

REYQ16U



Notes

- These figures illustrate the capacity correction factor due to the piping length 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, as shown in the above figures.

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 less.

Indoor connection ratio ≤ 100%

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

Indoor connection ratio > 100%

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

Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
16HP	12.7	15.9

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

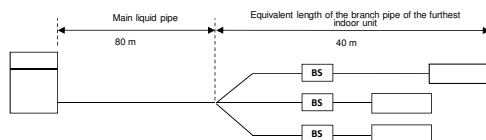
Overall equivalent length

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

Choose the correction factor from the following table.

Model	Correction ratio for cooling capacity		Correction ratio for heating capacity	
	Standard size	Size increase	Standard size	Size increase
16HP	1	0.5	1	0.3

Example - 16HP-



Overall equivalent length

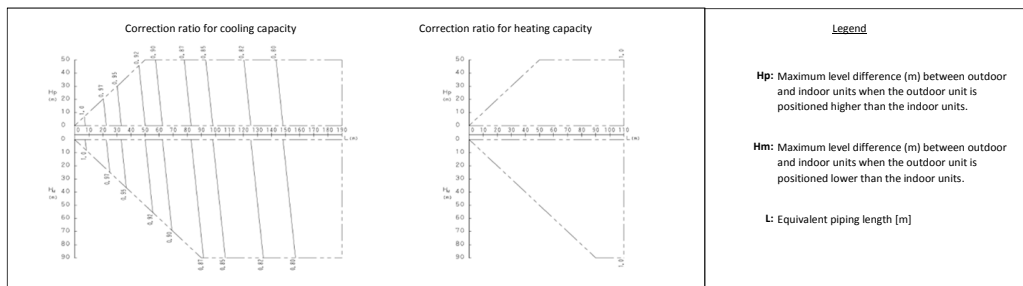
- Cooling mode = 80 m x 0.5 + 40 m = 80 m
- Heating mode = 80 m x 0.3 + 40 m = 64 m

Capacity correction ratio (height difference = 0)

- Cooling mode = 0.93
- Heating mode = 1.0

3D088033

REYQ20U
REYQ32U
REYQ34U



Notes

- These figures illustrate the capacity correction factor due to the piping length 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, as shown in the above figures.

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 less.

Indoor connection ratio ≤ 100%

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

Indoor connection ratio > 100%

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

Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
20HP	15.9	19.1
32+34HP	19.1	22.2

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

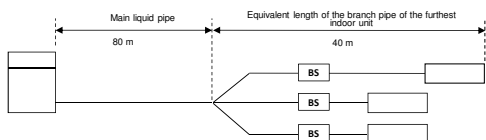
Overall equivalent length

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

Choose the correction factor from the following table.

Model	Correction ratio for cooling capacity		Correction ratio for heating capacity	
	Standard size	Size increase	Standard size	Size increase
20+32+34HP	1	0.5	1	0.4

Example - 20HP-



Overall equivalent length

- Cooling mode = 80 m x 0.5 + 40 m = 80 m
- Heating mode = 80 m x 0.4 + 40 m = 72 m

Capacity correction ratio (height difference = 0)

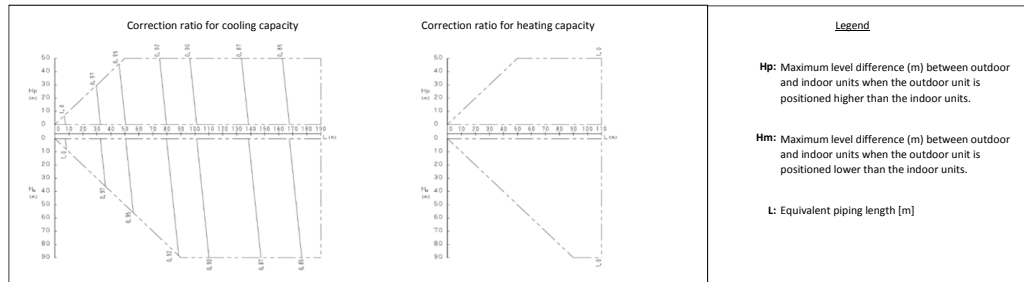
- Cooling mode = 0.88
- Heating mode = 1.0

3D088033

5 Capacity tables

5 - 3 Capacity Correction Factor

REYQ24U



Notes

- These figures illustrate the capacity correction factor due to the piping length 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, as shown in the above figures.

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 less.

Indoor connection ratio ≤ 100%

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

Indoor connection ratio > 100%

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

Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
24HP	15.9	19.1

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

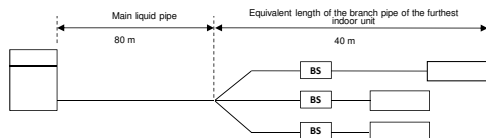
Overall equivalent length

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

Choose the correction factor from the following table.

Model	Correction ratio for cooling capacity		Correction ratio for heating capacity	
	Standard size	Size increase	Standard size	Size increase
24HP	1	0.5	1	0.4

Example -24HP-



Overall equivalent length

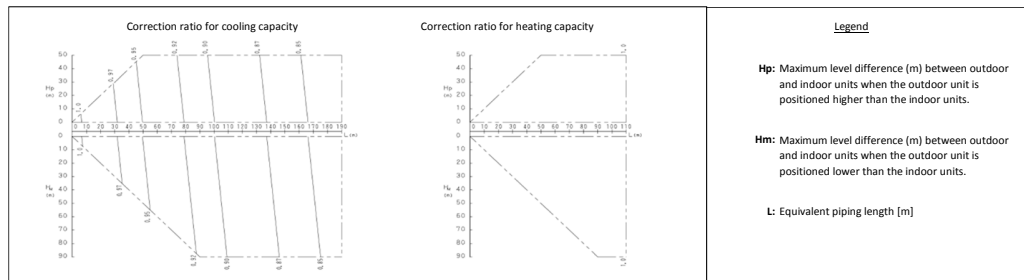
- Cooling mode = 80 m x 0.5 + 40 m = 80 m
- Heating mode = 80 m x 0.4 + 40 m = 72 m

Capacity correction ratio (height difference = 0)

- Cooling mode = 0.93
- Heating mode = 1.0

3D088033

REYQ36U



Notes

- These figures illustrate the capacity correction factor due to the piping length 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, as shown in the above figures.

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 less.

Indoor connection ratio ≤ 100%

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

Indoor connection ratio > 100%

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

Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
36HP	19.1	22.2

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

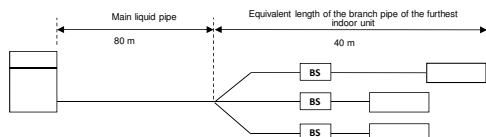
Overall equivalent length

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

Choose the correction factor from the following table.

Model	Correction ratio for cooling capacity		Correction ratio for heating capacity	
	Standard size	Size increase	Standard size	Size increase
36HP	1	0.5	1	0.4

Example -36HP-



Overall equivalent length

- Cooling mode = 80 m x 0.5 + 40 m = 80 m
- Heating mode = 80 m x 0.4 + 40 m = 72 m

Capacity correction ratio (height difference = 0)

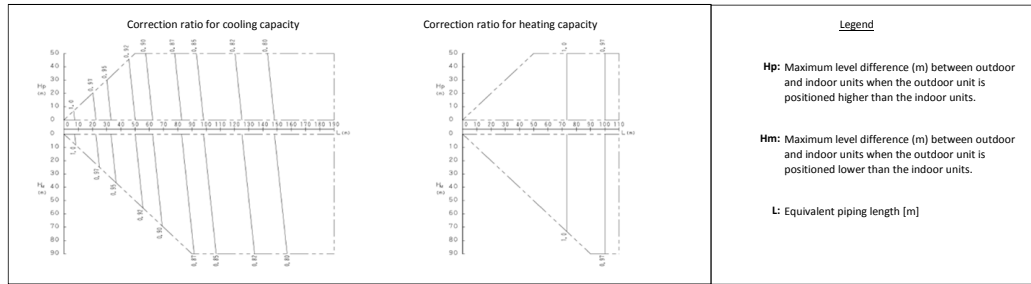
- Cooling mode = 0.92
- Heating mode = 1.0

3D088033

5 Capacity tables

5 - 3 Capacity Correction Factor

REYQ46U



Notes

- These figures illustrate the capacity correction factor due to the piping length 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, as shown in the above figures.

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 less.

Indoor connection ratio ≤ 100%.

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

Indoor connection ratio > 100%.

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

Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
46HP	19.1	22.2

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

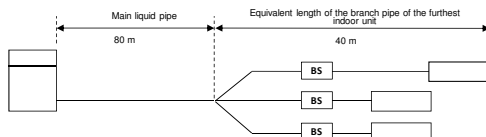
Overall equivalent length

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

Choose the correction factor from the following table.

Model	Correction ratio for cooling capacity		Correction ratio for heating capacity	
	Standard size	Size increase	Standard size	Size increase
46HP	1	0.5	1	0.4

Example -46HP-



Overall equivalent length

- Cooling mode
 - Heating mode
- $$= 80 \text{ m} \times 0.5 + 40 \text{ m} = 80 \text{ m}$$
- $$= 80 \text{ m} \times 0.4 + 40 \text{ m} = 72 \text{ m}$$

Capacity correction ratio (height difference = 0)

- Cooling mode
 - Heating mode
- $$= 0.88$$
- $$= 1.0$$

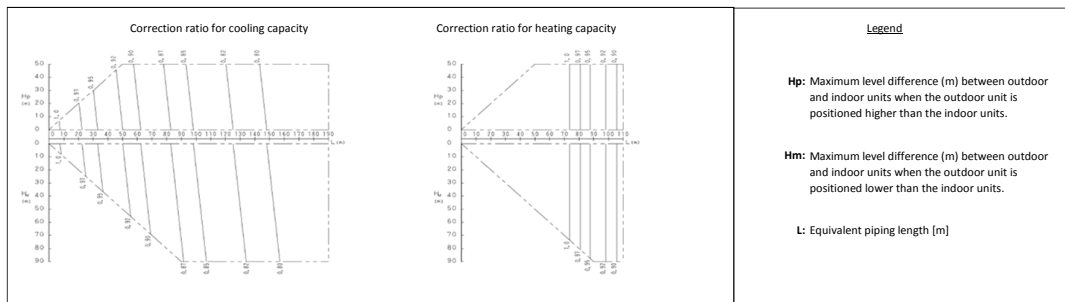
3D088033

REYQ48U

REYQ50U

REYQ52U

REYQ54U



Notes

- These figures illustrate the capacity correction factor due to the piping length 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, as shown in the above figures.

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 less.

Indoor connection ratio ≤ 100%.

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

Indoor connection ratio > 100%.

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

Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
48~54HP	19.1	22.2

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

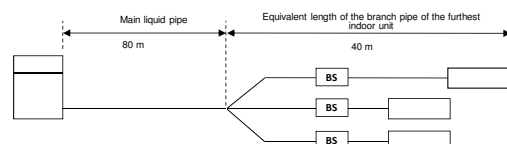
Overall equivalent length

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

Choose the correction factor from the following table.

Model	Correction ratio for cooling capacity		Correction ratio for heating capacity	
	Standard size	Size increase	Standard size	Size increase
48~54HP	1	0.5	1	0.4

Example -48HP-



Overall equivalent length

- Cooling mode
 - Heating mode
- $$= 80 \text{ m} \times 0.5 + 40 \text{ m} = 80 \text{ m}$$
- $$= 80 \text{ m} \times 0.4 + 40 \text{ m} = 72 \text{ m}$$

Capacity correction ratio (height difference = 0)

- Cooling mode
 - Heating mode
- $$= 0.88$$
- $$= 1.0$$

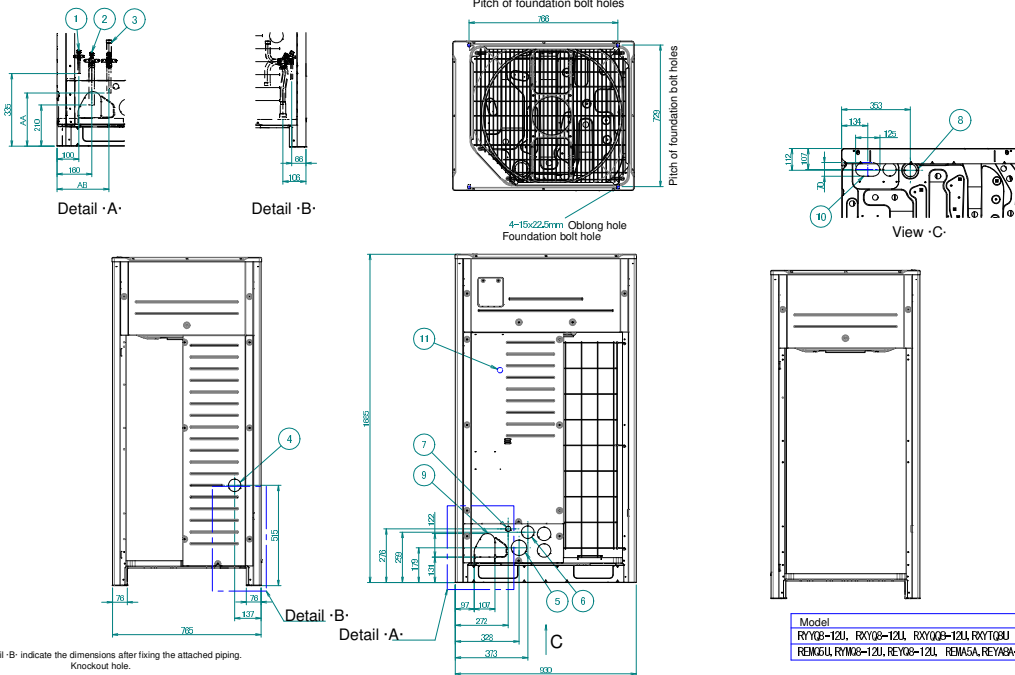
3D088033

6 Dimensional drawings

6 - 1 Dimensional Drawings

6

REYQ8-12U REMQU5U



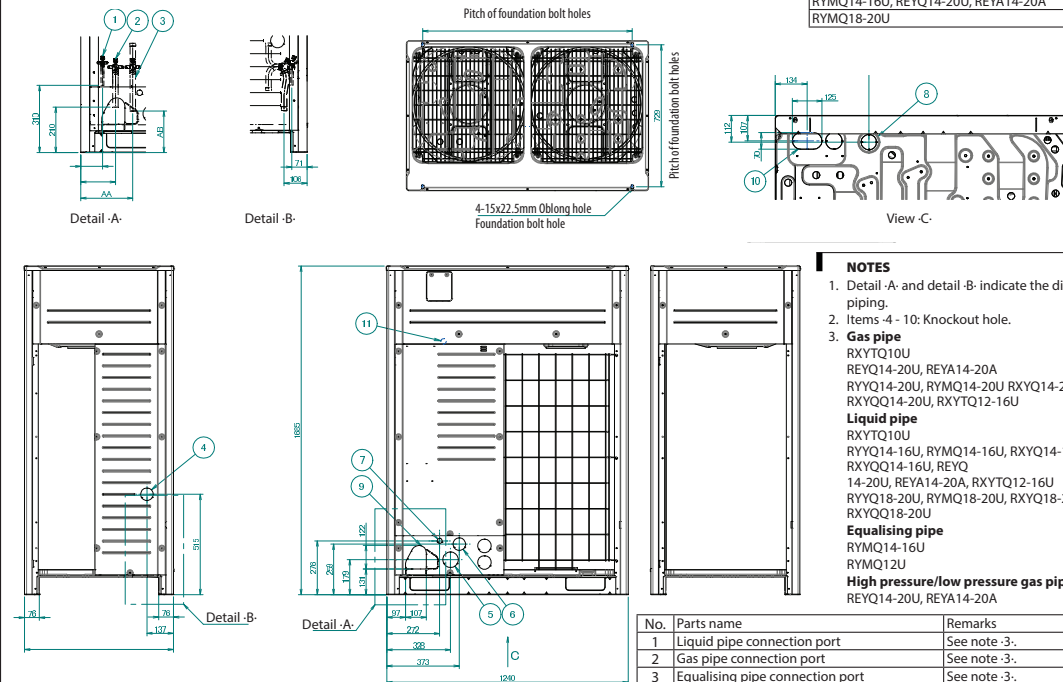
- Notes**
- Detail -A- and detail -B- indicate the dimensions after fixing the attached piping.
 - Items -4 - 10-: Knockout hole.
 - Gas pipe**
 RYYQ8U, RYMQU8U, RXYQ8U, RXYQ8U, RXYTQ8U
 RYYQ10U, RYMQU10U, RXYQ10U, RXYTQ10U
 REMQU5U, REMA5U, REYQ8-12U, REYA8-12A
 RYYQ12U, RYMQU12U, RXYQ12U, RXYTQ12U
Liquid pipe
 RYYQ8-10U, RYMQU8-10U, RXYQ8-10U, RXYTQ8-10U, REMQU5U, REMA5U, REYQ8-12U, REYA8-12A, RXYTQ8U
 RYYQ12U, RYMQU12U, RXYQ12U, RXYTQ12U
Equalising pipe
 RYMQU8-10U
 RYMQU12U
High pressure/low pressure gas pipe
 REMQU5U, REMA5U, REYQ8-12U, REYA8-12A

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

Model	AA	AB
RYYQ8-12U, RYYQ8-12U, RXYQ8-12U, RXYTQ8U	-	-
REMQU5U, RYMQU5-12U, REYQ8-12U, REMA5U, REYA8-12A	240	240

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REYQ14-20U



Model	AA	AB
RXYQ14-20U, RYYQ14-20U, RXYQ14-20U, RXYTQ10-16U	-	-
RYMQ14-16U, REYQ14-20U, REYA14-20A	240	240
RYMQ18-20U	240	192

NOTES

- Detail -A- and detail -B- indicate the dimensions after fixing the attached piping.
- Items -4 - 10: Knockout hole.
- Gas pipe**
 RXYTQ10U
 REYQ14-20U, REYA14-20A
 RYYQ14-20U, RYMQU14-20U, RXYQ14-20U, RXYTQ14-20U, RXYTQ12-16U
Liquid pipe
 RXYTQ10U
 RYYQ14-16U, RYMQU14-16U, RXYQ14-16U, RXYTQ14-16U, REYQ14-20U, REYA14-20A, RXYTQ12-16U
 RYYQ18-20U, RYMQU18-20U, RXYQ18-20U, RXYTQ18-20U
Equalising pipe
 RYMQU14-16U
 RYMQU12U
High pressure/low pressure gas pipe
 REYQ14-20U, REYA14-20A

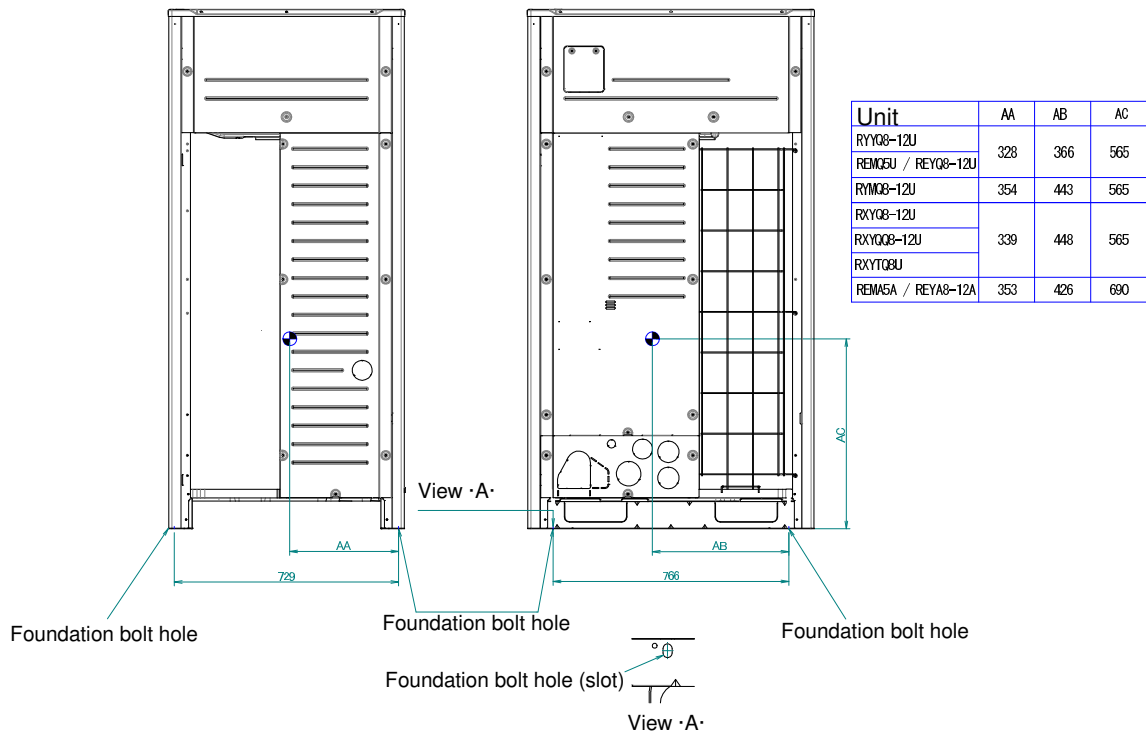
No.	Parts name	Remarks
1	Liquid pipe connection port	See note -3-.
2	Gas pipe connection port	See note -3-.
3	Equalising pipe connection port	See note -3-.
4	High pressure/low pressure gas pipe	See note -3-.
4	Power cord routing hole (side)	Ø65
5	Power cord routing hole (front)	Ø80
6	Power cord routing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

2D119091A

7 Centre of gravity

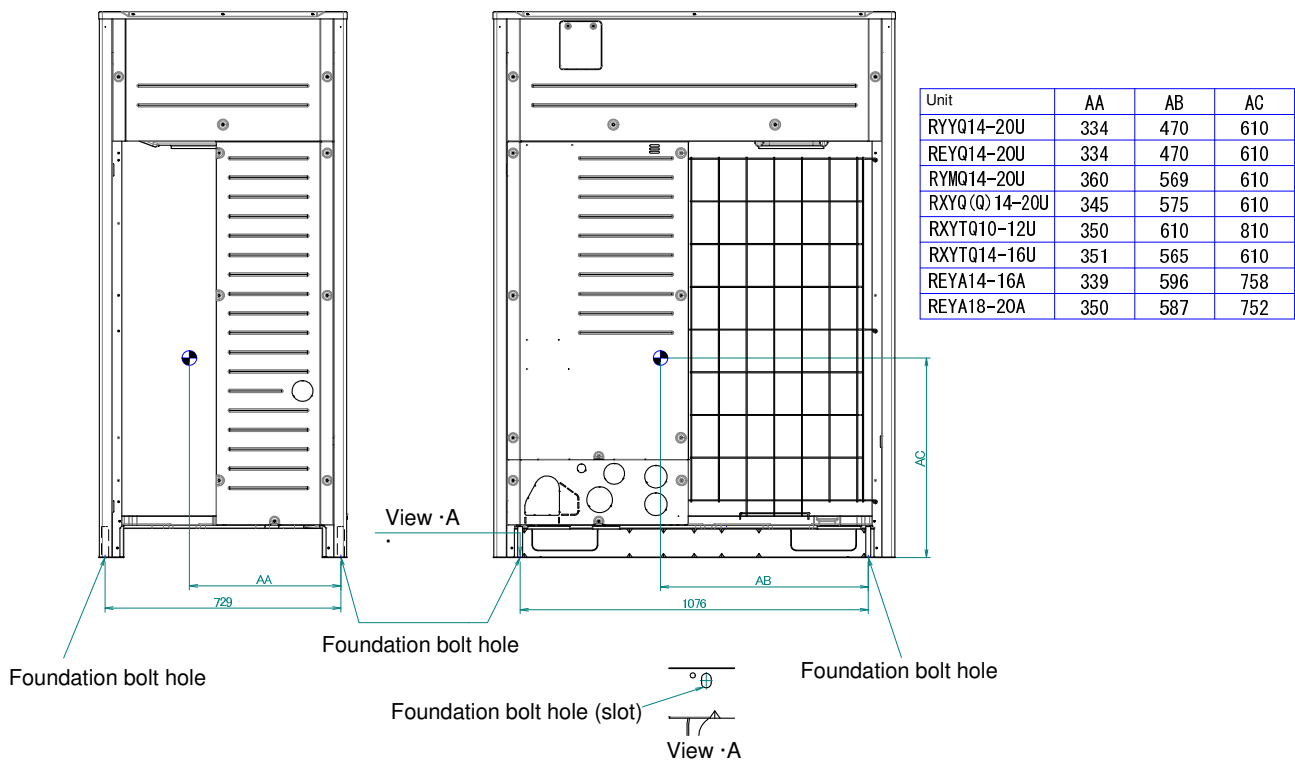
7 - 1 Centre of Gravity

REYQ8-12U
REMQ5U



3D119703A

REYQ14-20U

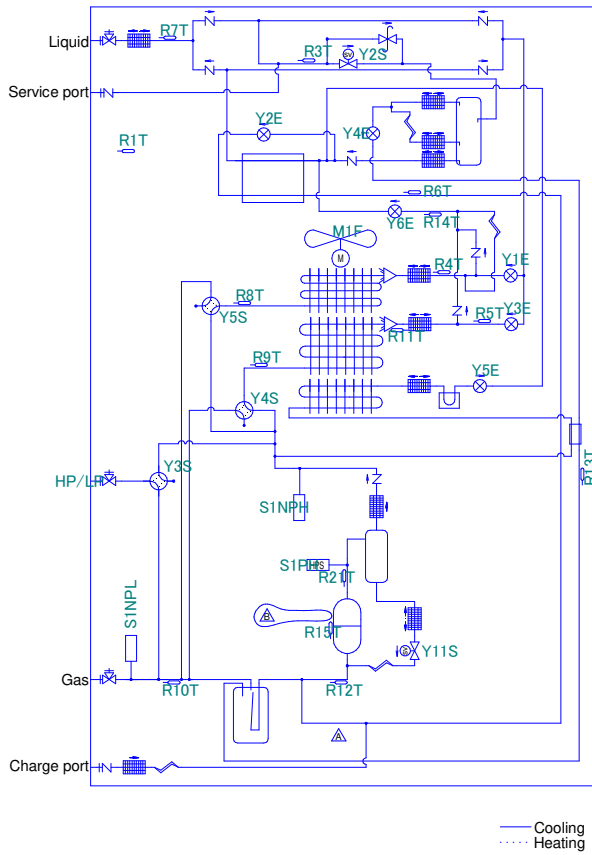


3D119704A

8 Piping diagrams

8 - 1 Piping Diagrams

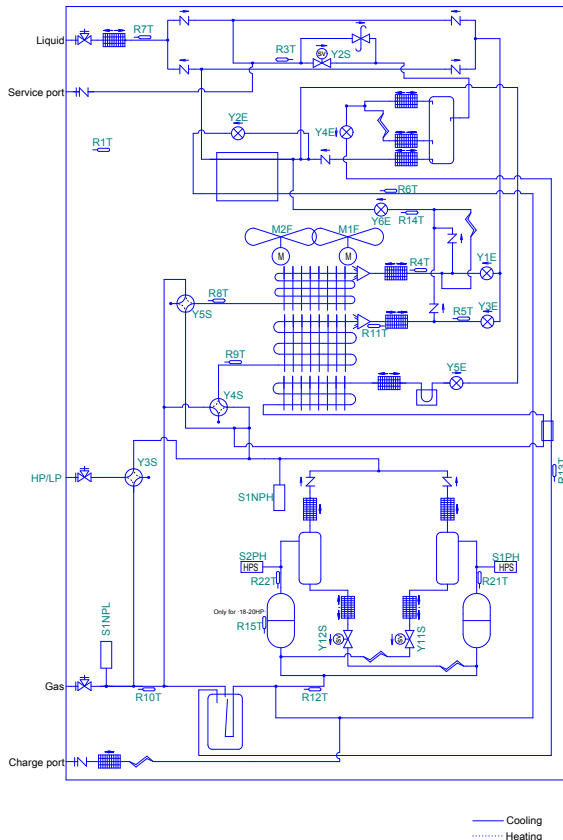
REYQ8-12U



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

3D088100B

REYQ14-20U



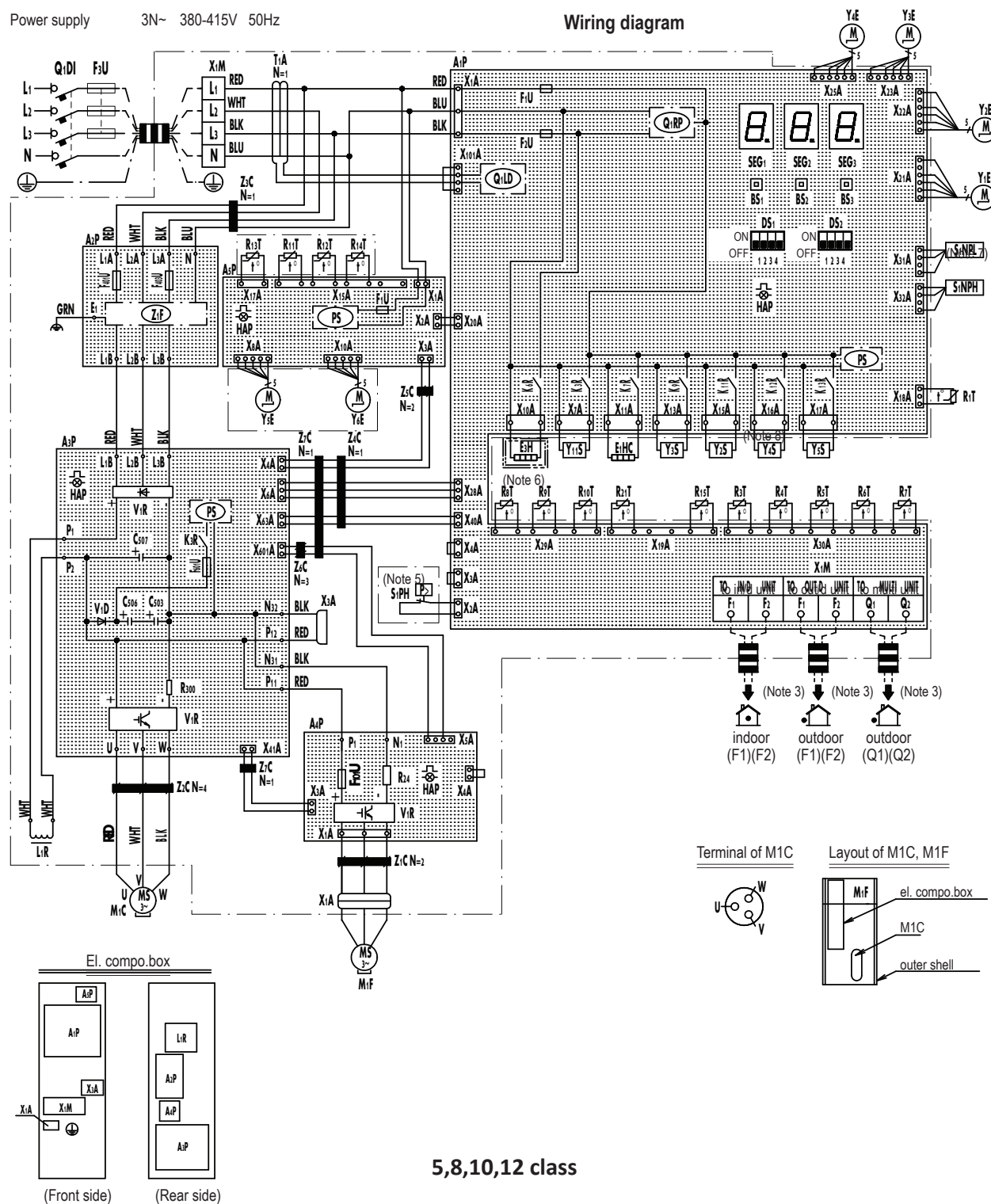
- Charge port / Service port
- Stop valve
- Filter
- Check valve
- Pressure relief valve
- Thermistor
- Solenoid valve
- Heat sink (PCB)
- Capillary tube
- Expansion valve
- 4-way valve
- Propeller fan
- High pressure switch
- Low pressure sensor
- High pressure sensor
- Oil separator
- Accumulator
-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

3D088099A

9 - 1 Wiring Diagrams - Three Phase

Power supply	3N~ 380-415V 50Hz
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Wiring diagram



2D120651A

9 Wiring diagrams

9 - 1 Wiring Diagrams - Three Phase

REMQ5U REYQ8-12U

A1P	Printed Circuit Board (Main)	R6T	Thermistor (Subcool Heat Exc.gas)
A2P	Printed Circuit Board (Noise Filter)	R7T	Thermistor (Subcool Heat Exc.liq)
A3P	Printed Circuit Board (Inv)	R8T	Thermistor (Heat Exc.gas Upper)
A4P	Printed Circuit Board (Fan)	R9T	Thermistor (Heat Exc.gas.lower)
A5P	Printed Circuit Board (Sub)	R10T	Thermistor (Suction)
BS1~3 (A1P)	Push Button Switch (Mode,Set,Return)	R11T	Thermistor (Heat Exc. Deicer)
C503,C506,C507 (A3P)	Capacitor	R12T	Thermistor (Suction Compressor)
DS1,DS2 (A1P)	DIP Switch	R13T	Thermistor (Receiver Gas)
E1HC	Crankcase Heater	R14T	Thermistor (Auto Charge)
E3H	Drainpan Heater (Option)	R15T	Thermistor (Compressor Body)
F1U,F2U (A1P)	Fuse (T,3,15A,250V)	R21T	Thermistor (M1C discharge)
F3U	Field Fuse	S1NPH	Pressure Sensor (High)
F101U (A4P)	Fuse	S1NPL	Pressure Sensor (Low)
F401U,F403U (A2P)	Fuse	S1PH	Pressure Switch (Disch)
F601U (A3P)	Fuse	SEG1~SEG3 (A1P)	7-Segment Display
HAP (A1P,A3P, A4P,A5P)	Pilotlamp (Service Monitor-Green)	T1A	Current Sensor
K3R (A1P)	Magnetic Relay (Y11S)	V1D (A3P)	Diode
K6R (A1P)	Magnetic Relay (E3H)	V1R (A3P,A4P)	Power Module
K7R (A1P)	Magnetic Relay (E1HC)	X*A	Connector
K9R (A1P)	Magnetic Relay (Y3S)	X1M	Terminal Block
K11R (A1P)	Magnetic Relay (Y2S)	X1M (A1P)	Terminal Block (Control)
K12R (A1P)	Magnetic Relay (Y4S)	Y1E	Electr. Exp. Valve (Heat Exc. Upper)
K13R (A1P)	Magnetic Relay (Y5S)	Y2E	Electr. Exp. Valve (Subcool Heat Exc.)
L1R	Reactor	Y3E	Electr. Exp. Valve (Heat Exc. Lower)
M1C	Motor (Compressor)	Y4E	Electr. Exp. Valve (Receiver Gas)
M1F	Motor (Fan)	Y5E	Electr. Exp. Valve (Inverter Cooling)
PS (A1P,A3P,A5P)	Switching Power Supply	Y6E	Electr. Exp. Valve (Auto Charge)
Q1DI	Field Earth Leakage Breaker	Y2S	Solenoid Valve (Liq.pipe)
Q1LD (A1P)	Field Earth Current Detector	Y3S	Solenoid Valve (HP/LP Gas Pipe)
Q1RP	Phase Reversal Detect Circuit (A1P)	Y4S	Solenoid Valve (Heat Exc.lower)
R24 (A4P)	Resistor (Current Sensor)	Y5S	Solenoid Valve (Heat Exc.upper)
R300 (A3P)	Resistor (Current Sensor)	Y11S	Solenoid Valve (M1C Oil Return)
R1T	Thermistor (Air)	Z*C	Noise Filter (Ferrite Core)
R3T	Thermistor (LIQ.MAIN)	Z*F (A2P)	Noise Filter (With Surge Absorber)
R4T	THERMISTOR (HEAT EXC.LIQ.UPPER)	Connector For Optional Accessories	
R5T	THERMISTOR (HEAT EXC.LIQ.LOWER)	X10A	Connector (Bottomplate Heater)

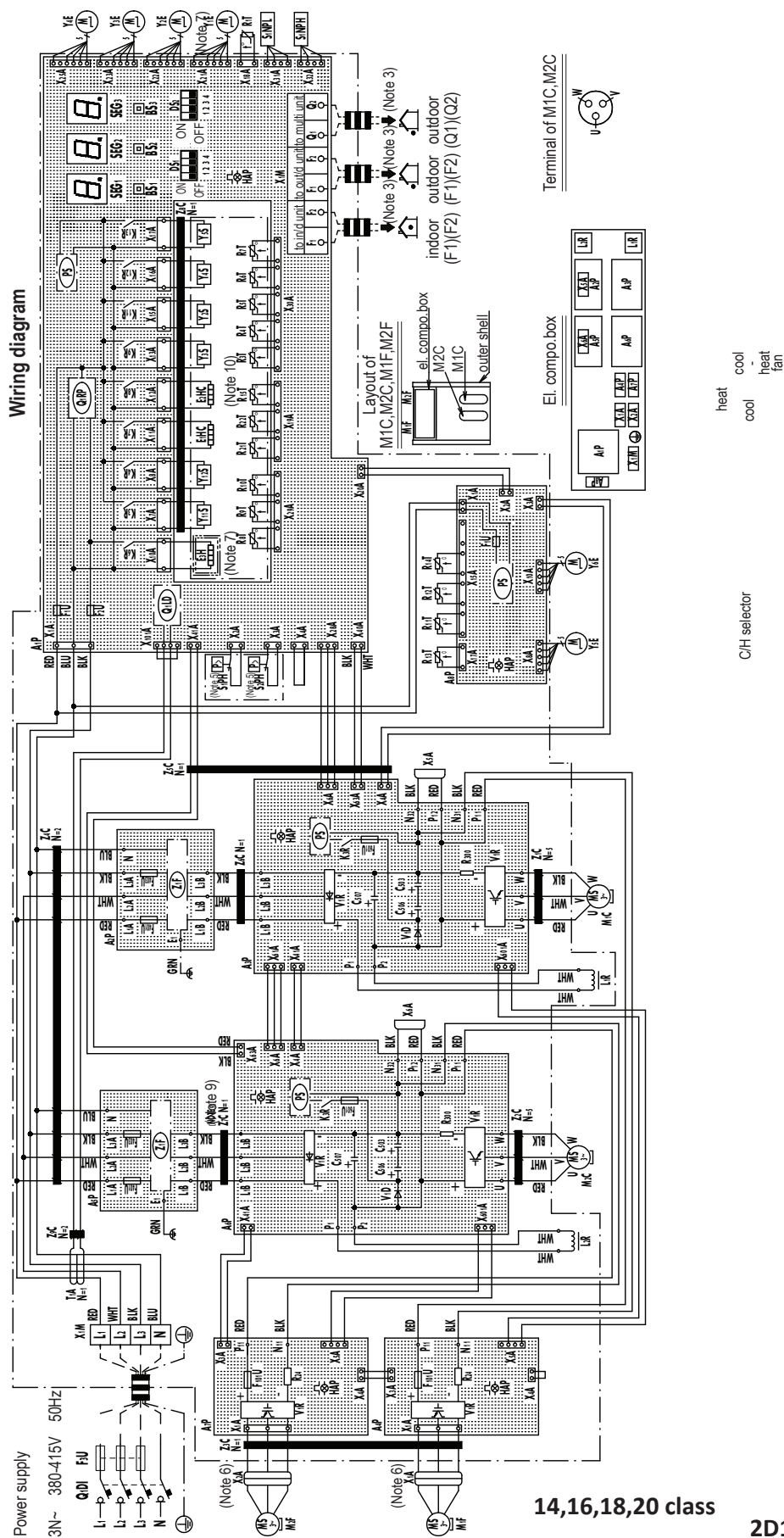
NOTES

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

2D120651A

9 - 1 Wiring Diagrams - Three Phase

Wiring diagram



14,16,18,20 class

2D120652A

9 Wiring diagrams

9 - 1 Wiring Diagrams - Three Phase

REYQ14-20U

A1P	Printed Circuit Board (Main)	R4T	THERMISTOR (HEAT EXC. LIQ. UPPER)
A2P,A5P	Printed Circuit Board (Noise Filter)	R5T	Thermistor (Heat Exc. Liq. Lower)
A3P,A6P	Printed Circuit Board (Inv)	R6T	Thermistor (Subcool Heat Exc. Gas)
A4P,A7P	Printed Circuit Board (Fan)	R7T	Thermistor (Subcool Heat Exc. Liq.)
A8P	Printed Circuit Board (Sub)	R8T	Thermistor (Heat Exc. Gas Upper)
BS1~3 (A1P)	Push Button Switch (Mode,Set,Return)	R9T	Thermistor (Heat Exc. Gas Lower)
C503,C506,C507 (A3P,A6P)	Capacitor	R10T	Thermistor (Suction)
DS1,DS2 (A1P)	DIP Switch	R11T	Thermistor (Heat Exc. Deicer)
E1HC,E2HC	Crankcase Heater	R12T	Thermistor (Suction Comp.)
E3H	Drainpan Heater (Option)	R13T	Thermistor (Receiver Gas)
F1U,F2U (A1P)	Fuse (T,3,15A,250V)	R14T	Thermistor (Auto Charge)
F1U (A8P)	Fuse (T,3,15A,250V)	R15T	Thermistor (Comp. Body)
F3U	Field Fuse	R21T,R22T	Thermistor (M1C ,M2C discharge)
F101U (A4P,A7P)	Fuse	S1NPH	Pressure Sensor (High)
F401U,F403U (A2P,A5P)	Fuse	S1NPL	Pressure Sensor (Low)
F601U (A3P,A6P)	Fuse	S1PH,S2PH	Pressure Switch (High)
HAP (A1P A3P,A4P, A6P,A8P)	Pilotlamp (Service Monitor-Green)	SEG1~SEG3 (A1P)	7-Segment Display
K3R (A3P,A6P)	Magnetic Relay	T1A	Current Sensor
K3R (A1P)	Magnetic Relay (Y12S)	V1D (A3P,A6P)	Diode
K4R (A1P)	Magnetic Relay (Y11S)	V1R (A3P,A4P,A6P,A7P)	Power Module
K6R (A1P)	Magnetic Relay (E3H)	X*A	Connector
K7R (A1P)	Magnetic Relay (E1HC)	X1M	Terminal Block
K8R (A1P)	Magnetic Relay (E2HC)	X1M (A1P)	Terminal Block (Control)
K9R (A1P)	Magnetic Relay (Y3S)	Y1E	Electr.exp.valve (Heat Exc. Upper)
K11R (A1P)	Magnetic Relay (Y2S)	Y2E	Electr.exp.valve (Subcool Heat Exc.)
K12R (A1P)	Magnetic Relay (Y4S)	Y3E	Electr.exp.valve (Heat Exc. Lower)
K13R (A1P)	Magnetic Relay (Y5S)	Y4E	Electr.exp.valve (Receiver Gas)
L1R,L2R	Reactor	Y5E	Electr.exp.valve (Inv. Cooling)
M1C,M2C	Motor (Compressor)	Y6E	Electr.exp.valve (Auto Charge)
M1F,M2F	Motor (Fan)	Y2S	Solenoid Valve (Liq. Pipe)
PS (A1P,A3P,A6P,A8P)	Switching Power Supply	Y3S	Solenoid Valve (Hp/Lp Gas Pipe)
Q1DI	Field Earth Leakage Breaker	Y4S	Solenoid Valve (Heat Exc. Lower)
Q1LD (A1P)	Field Earth Current Detector	Y5S	Solenoid Valve (Heat Exc. Upper)
R24 (A4P,A7P)	Resistor (Current Sensor)	Y11S	Solenoid Valve (Oil Return M1C)
R300 (A3P,A6P)	Resistor (Current Sensor)	Y12S	Solenoid Valve (Oil Return M2C)
R1T	Thermistor (Air)	Z*C	Noise Filter (Ferrite Core)
R3T	THERMISTOR (LIQUID MAIN)	Z*F (A2P,A5P)	Noise Filter (With Surge Absorber)
			Connector For Optional Accessories
		X10A	Connector (Drainpan Heater)

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. For connection wiring to indoor-outdoor transmission F1-F2, outdoor-outdoor transmission F1-F2, outdoor-multi transmission Q1-Q2, refer to the installation manual.
4. How to use BS1~3 switch. Refer to "service precaution" label on el. compo. box cover.
5. When operating, don't shortcircuit the protection devices (S1PH, S2PH).
6. Connector X1A (M1F) is red, connector X2A (M2F) is white.
7. When using the optional accessory, refer to the installation manual of the optional accessory.
8. Colors: BLK: Black, RED: Red, BLU: Blue, WHT: White, GRN: Green.

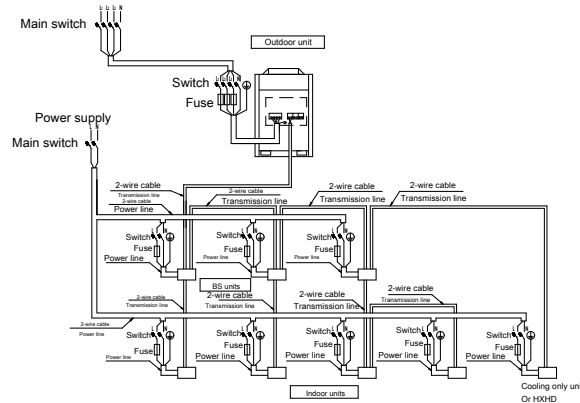
2D120652A

10 External connection diagrams

10 - 1 External Connection Diagrams

REMQ-U
REYQ-U

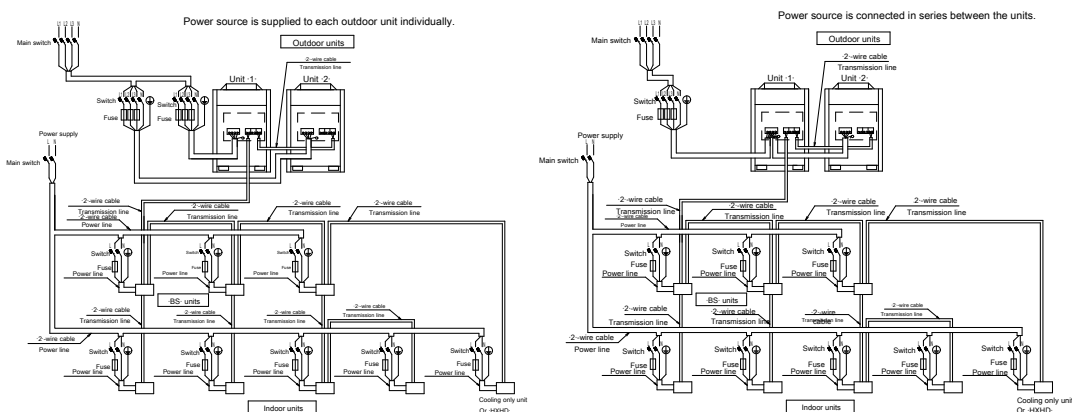
VRV4 Heat recovery
External connection diagram



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

3D088095

REMQ-U
REYQ-U



1. All wiring, components and materials to be procured on-site must comply with the applicable legislation.
2. Use copper conductors only
3. For more details, refer to the wiring diagram of the unit.
4. Install a circuit breaker for safety.
5. All field wiring and components must be provided by an authorised electrician.
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9. Install a main to switch to (if necessary) immediately interrupt all the system's power sources.
10. If there exists the possibility of reversed phase, loose phase or momentary blackout, or if the power goes on and off while the product is operating, attach a reversed phase protection circuit locally. Running the product in reversed phase may break the compressor and other parts.
11. Install an earth leakage circuit breaker.
12. The capacity of UNIT1 must be larger than that of UNIT2 when the power source is connected in series between the units.

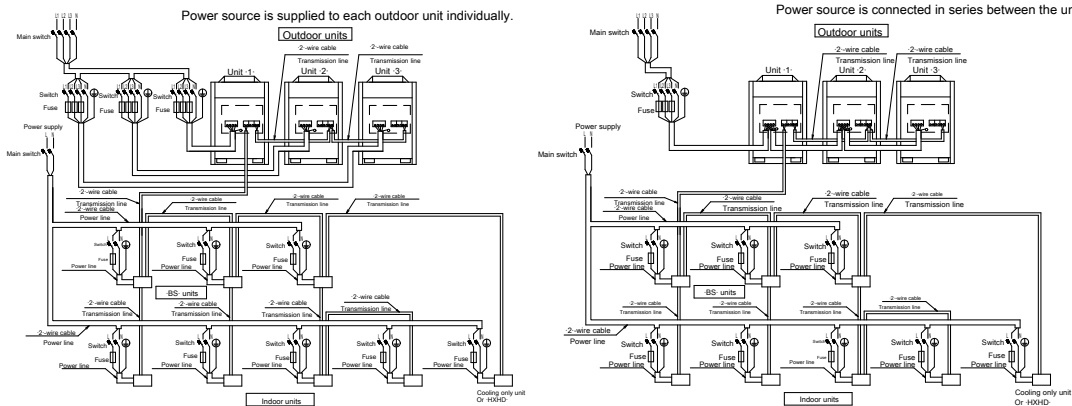
3D088094

10 External connection diagrams

10 - 1 External Connection Diagrams

REMQ-U
REYQ-U

10



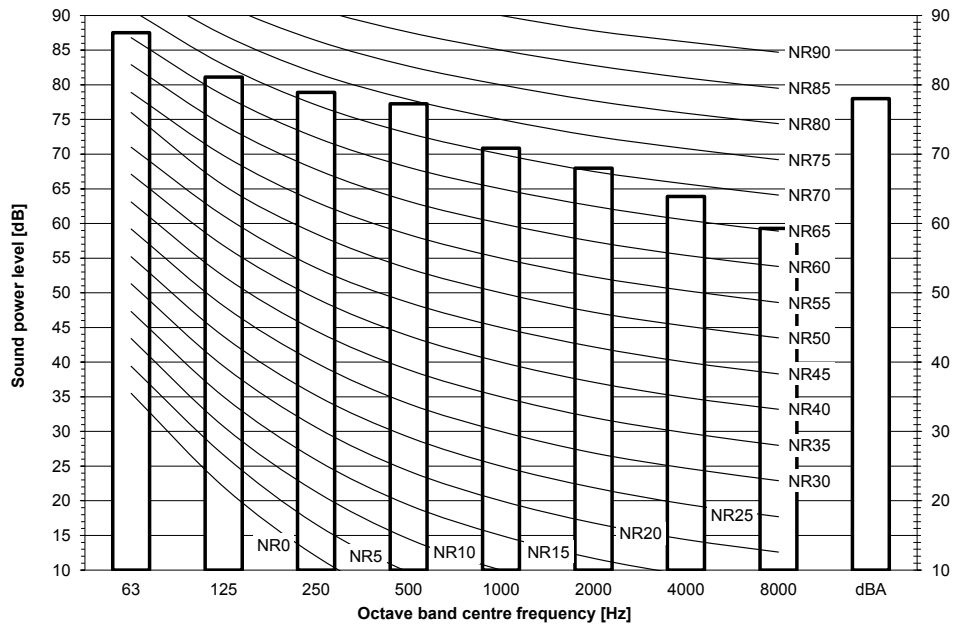
1. All wiring, components and materials to be procured on-site must comply with the applicable legislation.
2. Use copper conductors only
3. For more details, refer to the wiring diagram of the unit.
4. Install a circuit breaker for safety.
5. All field wiring and components must be provided by an authorised electrician.
6. Unit has to be grounded in compliance with the applicable legislation.
7. The wiring shown is a general points-of-connection guide and is not intended to include all details for a specific installation.
8. Make sure to install the switch and the fuse to the power line of each equipment.
9. Install a main to switch to (if necessary) immediately interrupt all the system's power sources.
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.
10. Running the product in reversed phase may break the compressor and other parts.
11. Install an earth leakage circuit breaker.
12. The capacity of UNIT1 must be larger than that of UNIT2 when the power source is connected in series between the units.

3D088016

11 Sound data

11 - 1 Sound Power Spectrum

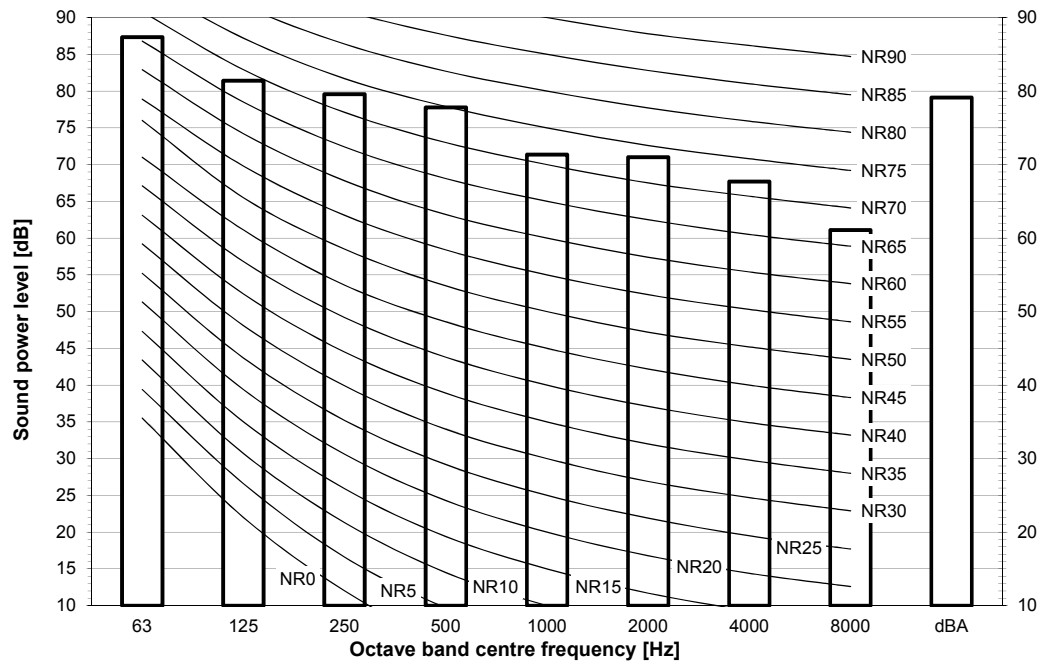
REMQ5U
REYQ8U
RXYQ8U
RXYTQ8UYF
RYYQ8U
RYMQ8U



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

3D119528

REYQ10U
RXYQ10U
RXYQ10U
RYYQ10U
RYMQ10U



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

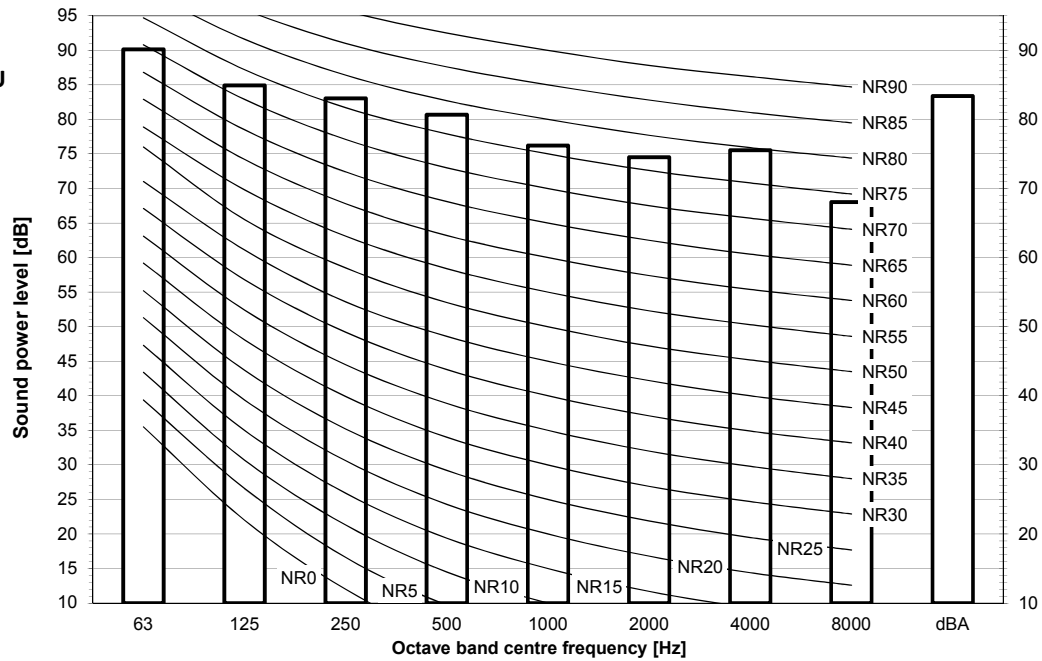
3D119529

11 Sound data

11 - 1 Sound Power Spectrum

11

REYQ12U
RXYQ12U
RXYQ12U
RYYQ12U
RYMQ12U



Notes

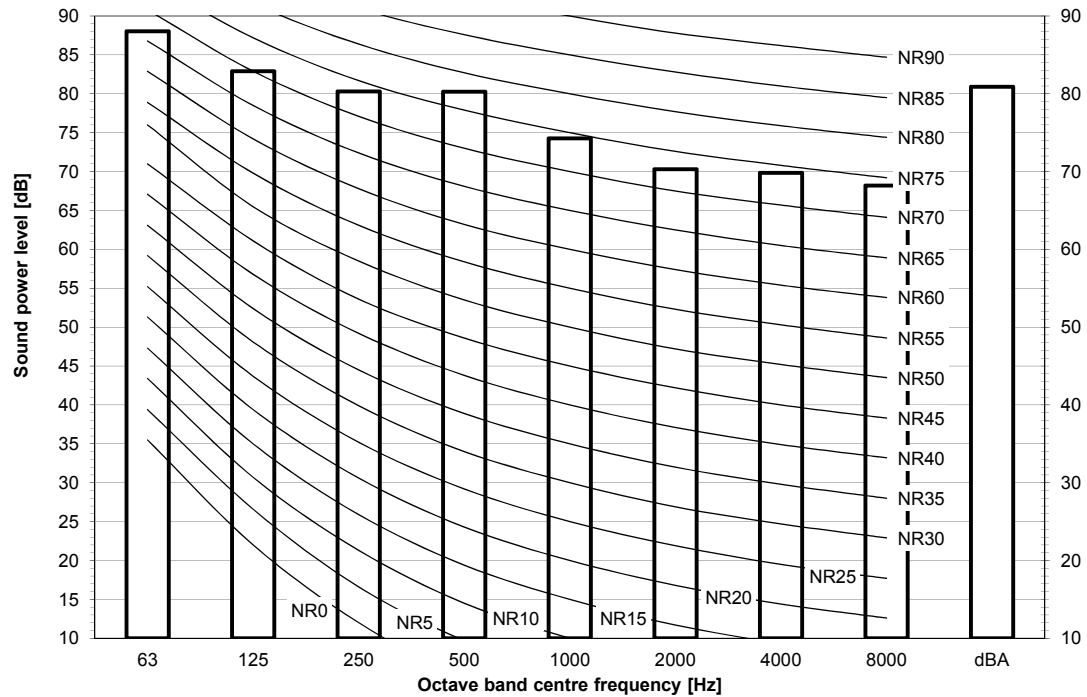
dBA = A-weighted sound power level (A scale according to IEC).

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

Measured according to ISO 3744

3D119530

REYQ14U
RXYQ14U
RXYQ14U
RYYQ14U
RYMQ14U



Notes

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

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

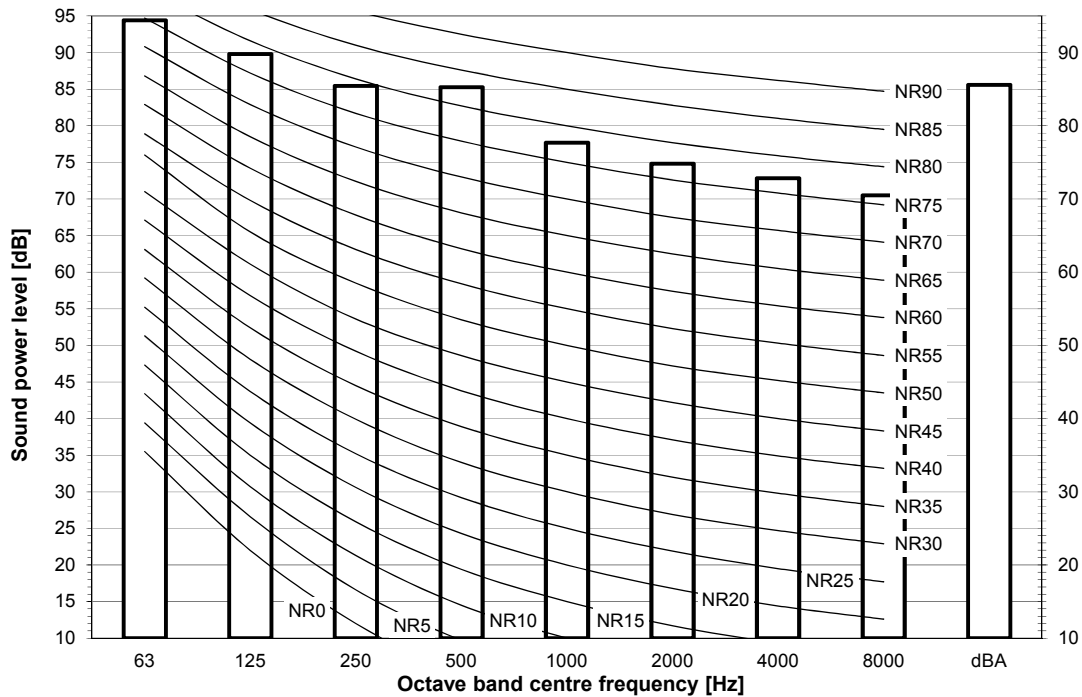
Measured according to ISO 3744

3D119531

11 Sound data

11 - 1 Sound Power Spectrum

REYQ16U
RXYQ16U
RXYQ16U
RYYQ16U
RYMQ16U



Notes

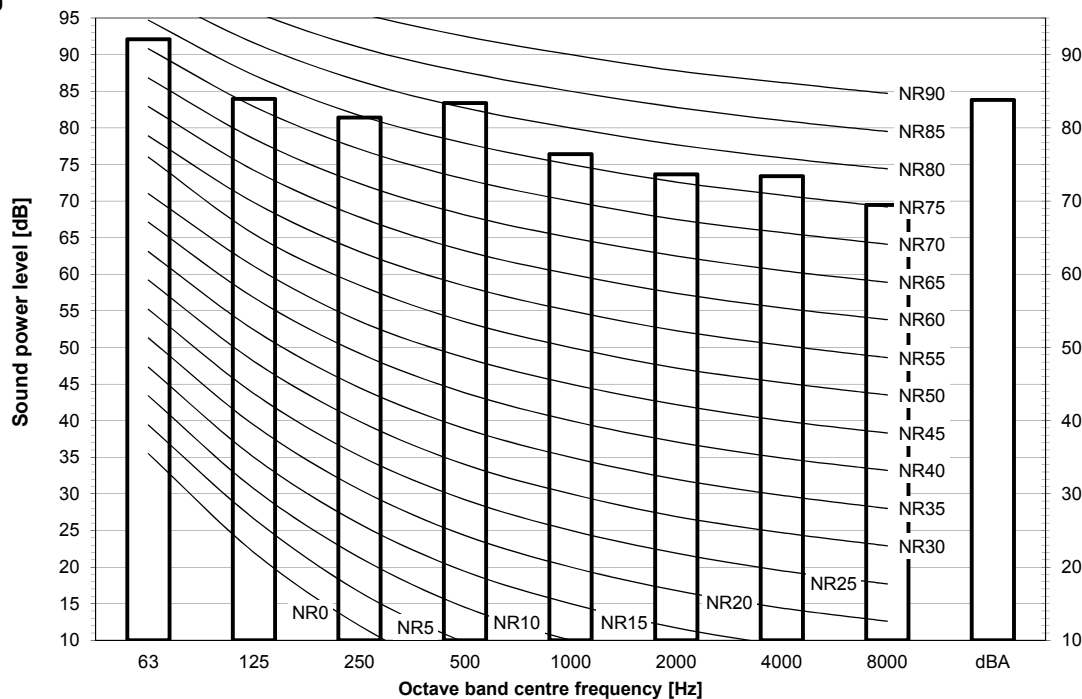
dBA = A-weighted sound power level (A scale according to IEC).

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

Measured according to ISO 3744

3D119532

REYQ18U
RXYQ18U
RXYQ18U
RYYQ18U
RYMQ18U



Notes

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

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

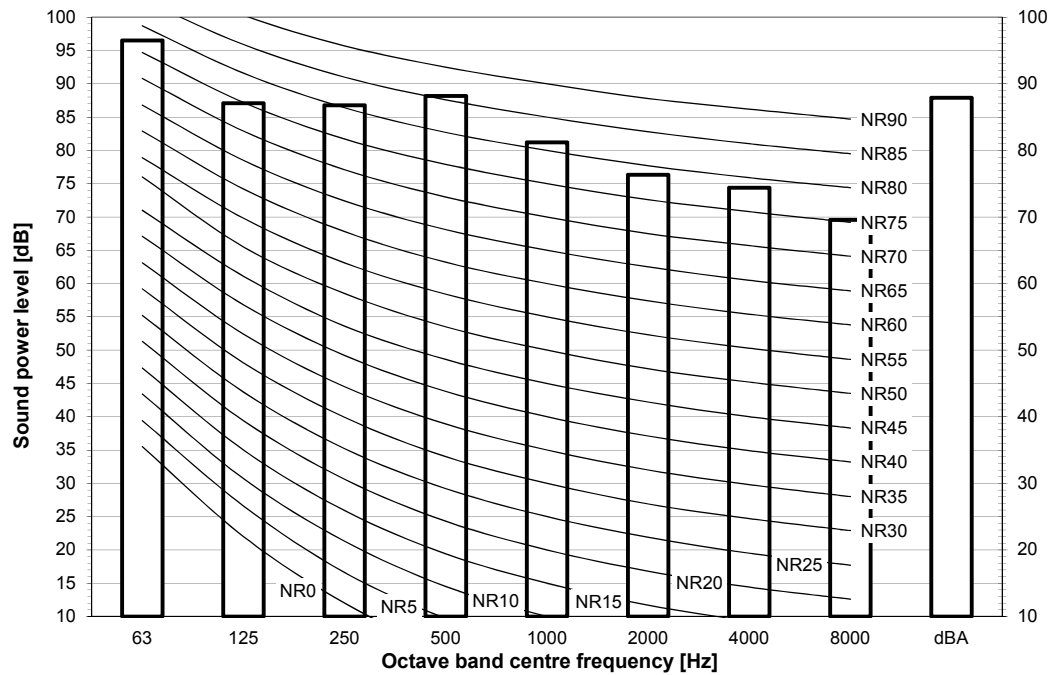
Measured according to ISO 3744

3D119533

11 Sound data

11 - 1 Sound Power Spectrum

REYQ20U
RXYQQ20U
RXYQ20U
RYYQ20U
RYMQ20U



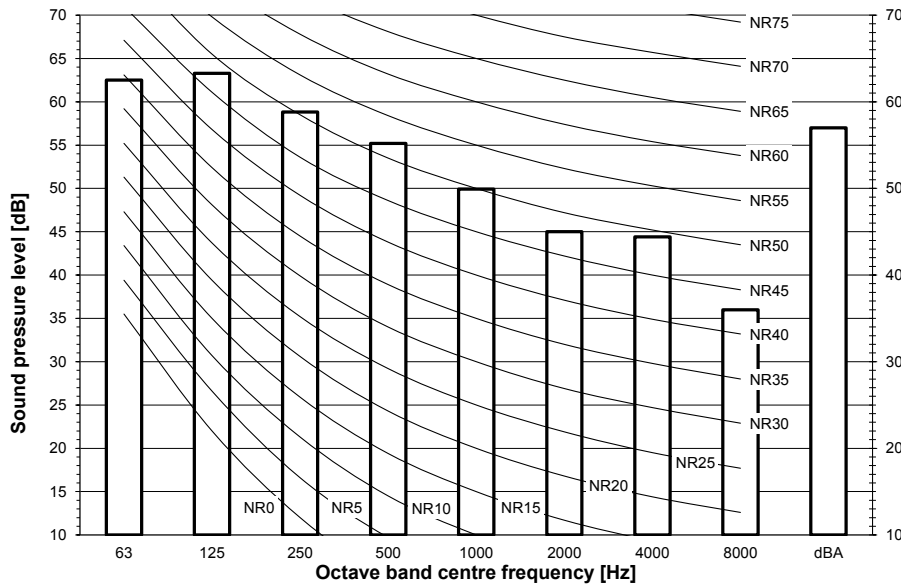
Notes
dBA = A-weighted sound power level (A scale according to IEC).
Reference acoustic intensity 0dB = 10^{-6} W/m^2
Measured according to ISO 3744

3D119534

11 Sound data

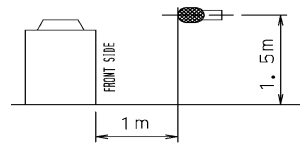
11 - 2 Sound Pressure Spectrum

REMQ5U
REYQ8U
RXYQ8U
RXYTQ8UYF
RYYQ8U
RYMQ8U



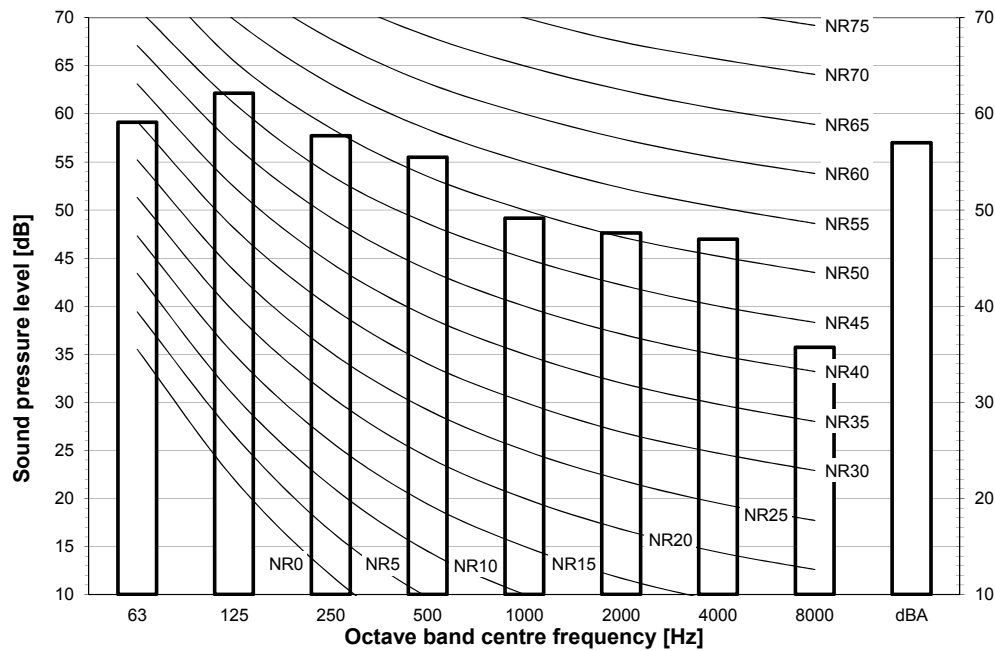
Notes

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



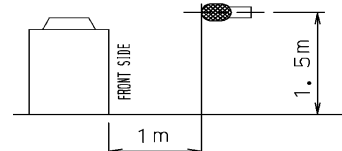
3D119521

REYQ10U
RXYQ10U
RXYQ10U
RYYQ10U
RYMQ10U



Notes

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

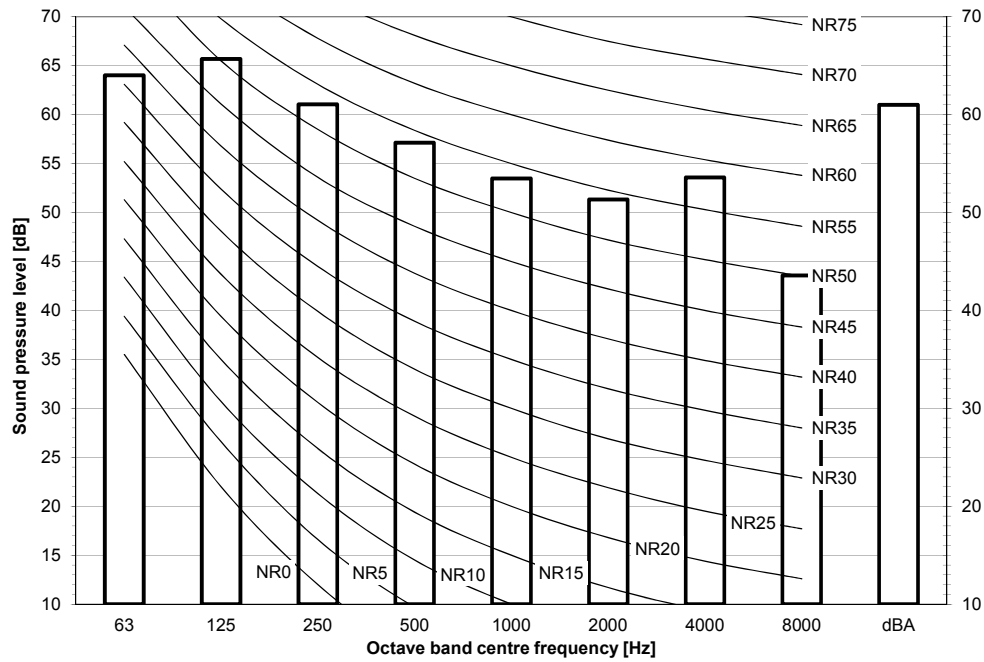


3D119522

11 Sound data

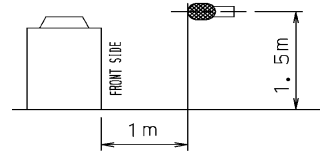
11 - 2 Sound Pressure Spectrum

REYQ12U
RXYQ12U
RXYQ12U
RYYQ12U
RYMQ12U



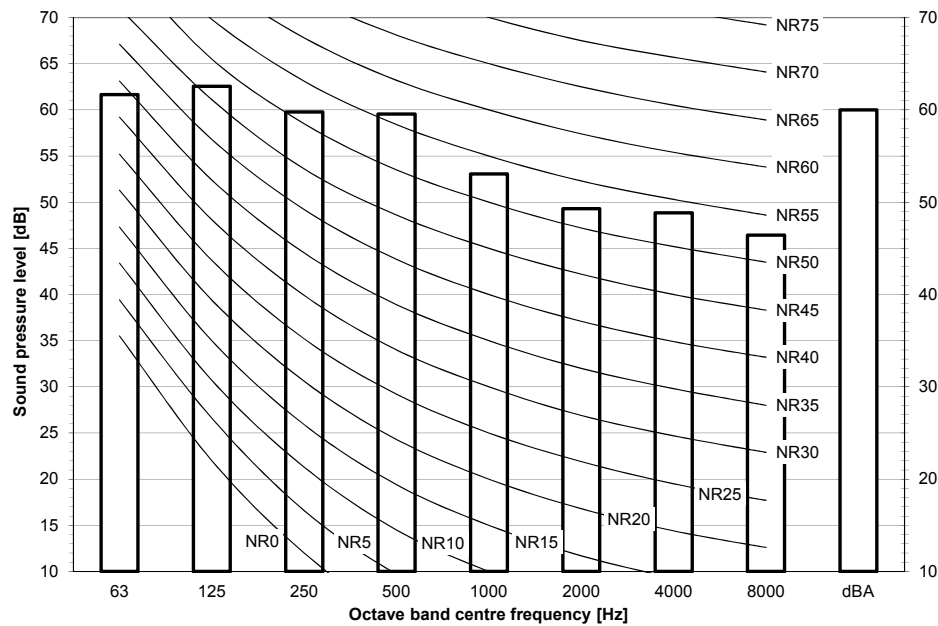
Notes

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 μ Pa



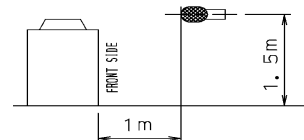
3D119523

REYQ14U
RXYQ14U
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 μ Pa

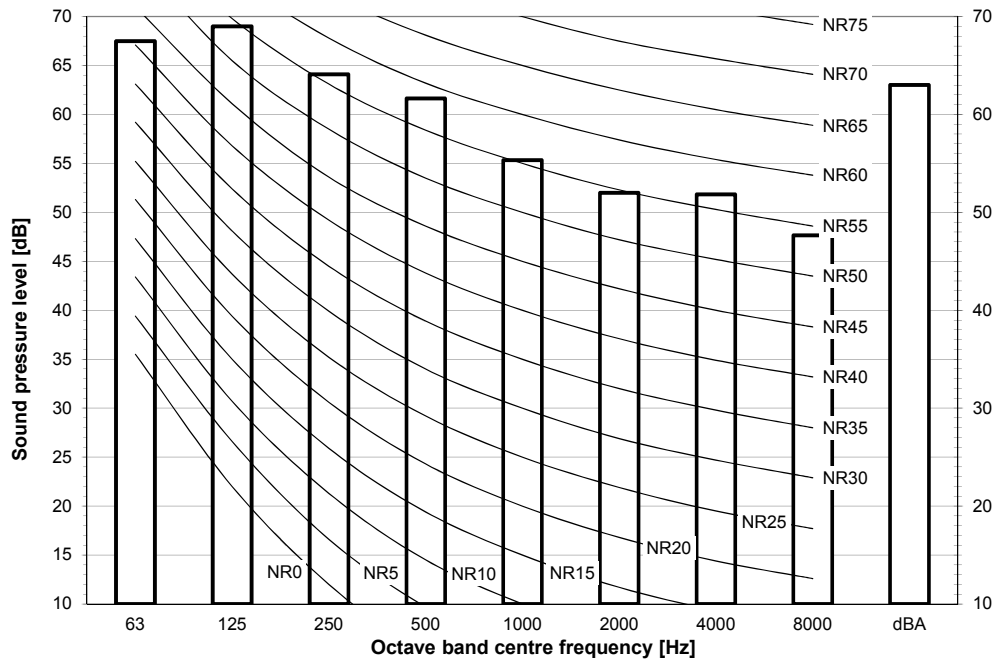


3D119524

11 Sound data

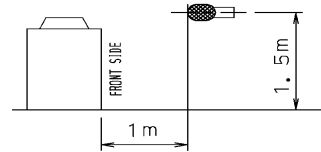
11 - 2 Sound Pressure Spectrum

REYQ16U
RXYQ16U
RXYQ16U
RYYQ16U
RYMQ16U



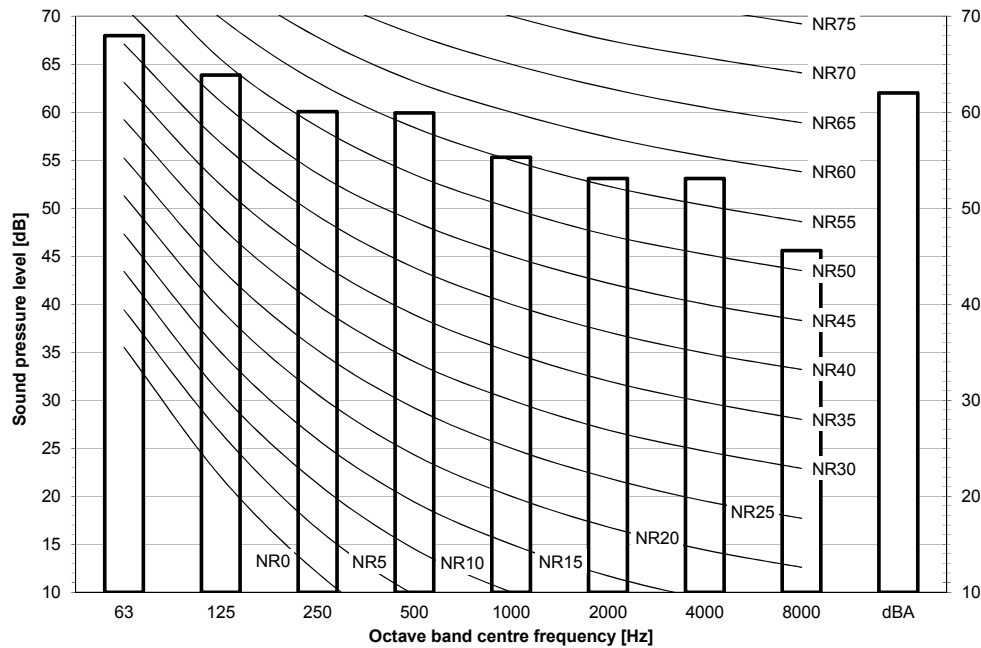
Notes

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



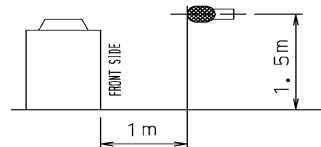
3D119525

REYQ18U
RXYQ18U
RXYQ18U
RYYQ18U
RYMQ18U



Notes

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

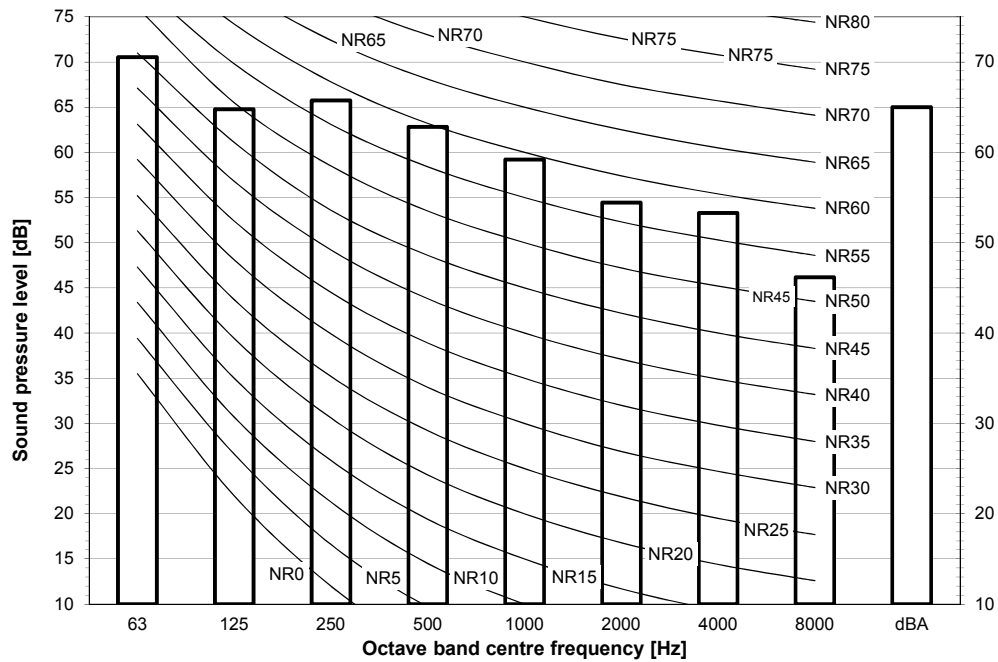


3D119526

11 Sound data

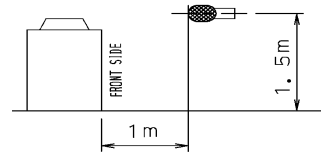
11 - 2 Sound Pressure Spectrum

REYQ20U
RXYQQ20U
RXYQ20U
RYYQ20U
RYMQ20U



Notes

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



3D119527

11 Sound data

11 - 3 Sound Pressure Spectrum Quiet Mode Level 1

REMQ5U

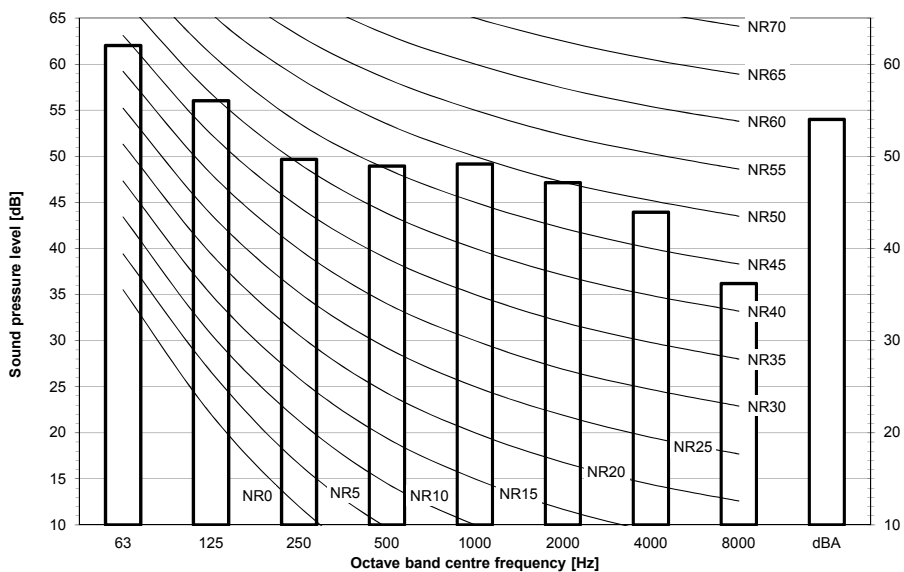
REYQ8-12U

RXYQ8-12U

RXYTQ8UYF

RYY8-12U

RYMQ8-12U



Notes

Data is valid at free field condition.

Data is valid at nominal operation condition.

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

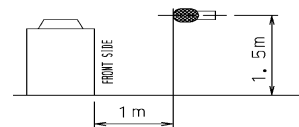
Reference acoustic pressure 0 dB = 20 μ Pa

Data is valid under the following conditions

Cooling operation

Outdoor Ta: 35°C

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



3D119535

REYQ14-16U

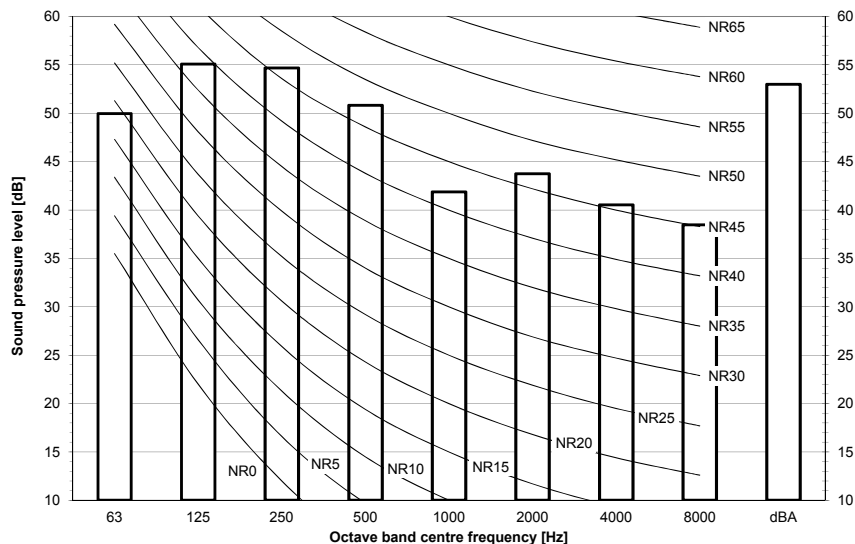
RXYQ14-16U

RXYQ14-16U

RXYTQ14-16UYF

RYYQ14-16U

RYMQ14-16U



Notes

Data is valid at free field condition.

Data is valid at nominal operation condition.

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

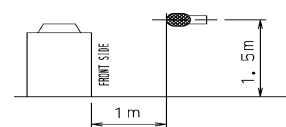
Reference acoustic pressure 0 dB = 20 μ Pa

Data is valid under the following conditions

Cooling operation

Outdoor Ta: 35°C

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

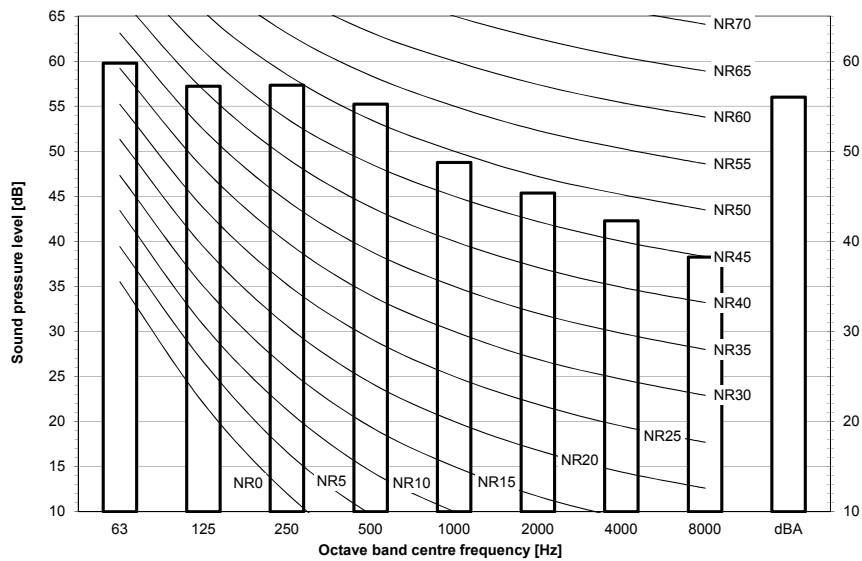


3D119538

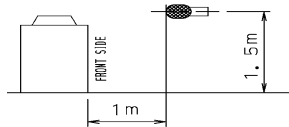
11 Sound data

11 - 3 Sound Pressure Spectrum Quiet Mode Level 1

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



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



3D119541

11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode Level 2

REMQ5U

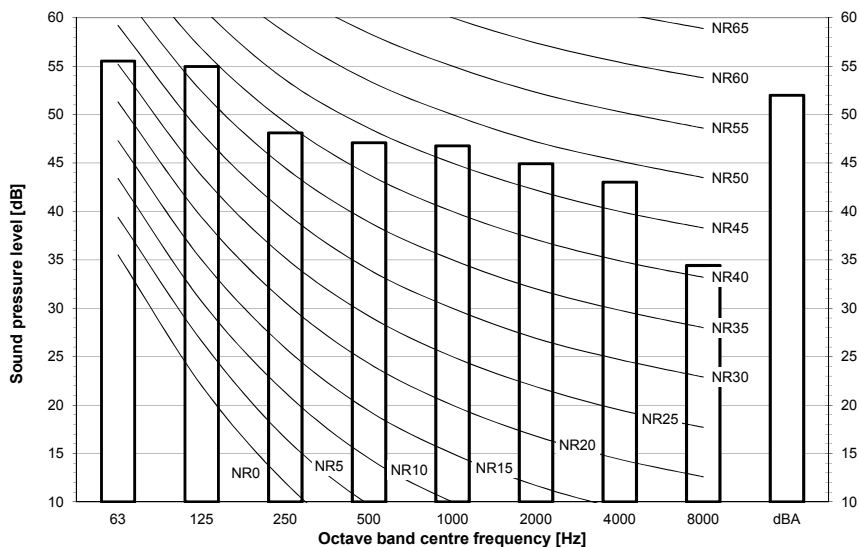
REYQ8-12U

RXYQ8-12U

RXYTQ8UYF

RYYQ8-12U

RYMQ8-12U



Notes

Data is valid at free field condition.

Data is valid at nominal operation condition.

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

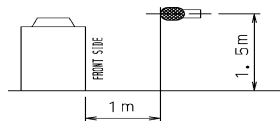
Reference acoustic pressure 0 dB = 20 μ Pa

Data is valid under the following conditions

Cooling operation

Outdoor Ta: 35°C

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



3D119536

REYQ14-16U

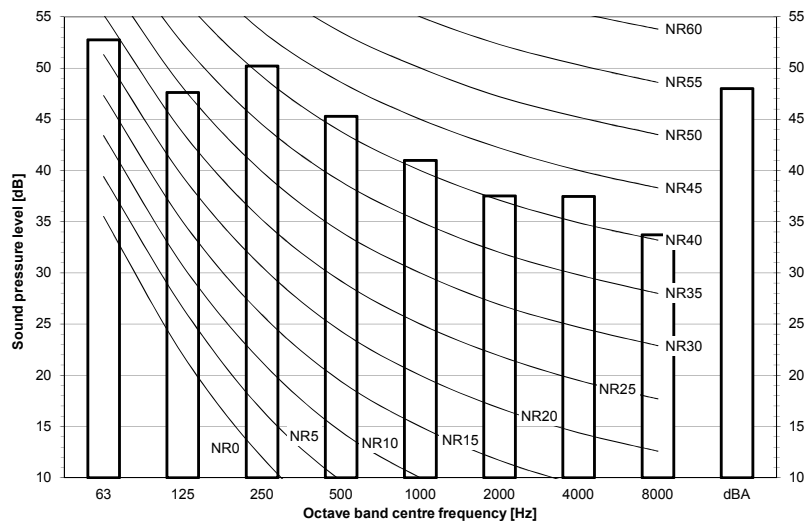
RXYQ14-16U

RXYQ14-16U

RXYTQ14-16UYF

RYYQ14-16U

RYMQ14-16U



Notes

Data is valid at free field condition.

Data is valid at nominal operation condition.

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

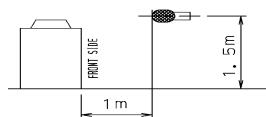
Reference acoustic pressure 0 dB = 20 μ Pa

Data is valid under the following conditions

Cooling operation

Outdoor Ta: 35°C

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

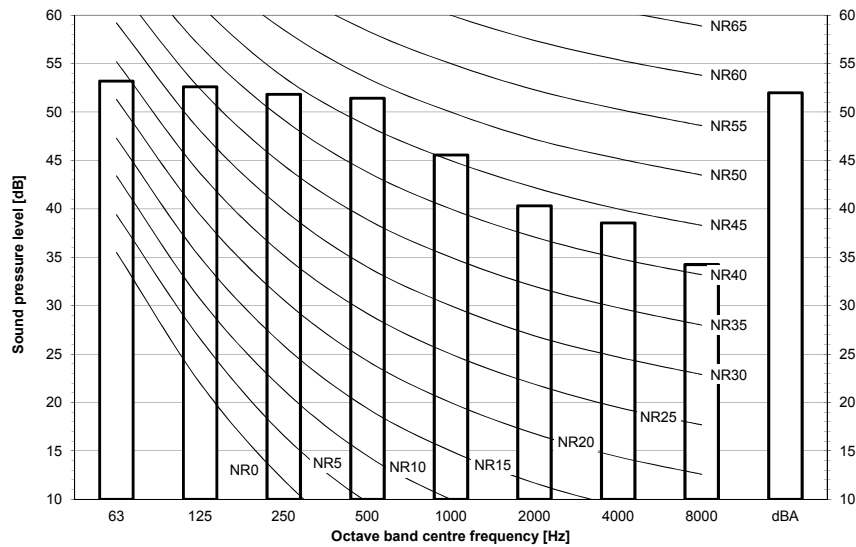


3D119539

11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode Level 2

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



Notes

Data is valid at free field condition.

Data is valid at nominal operation condition.

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

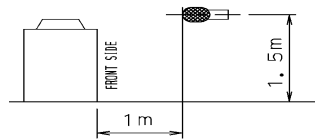
Reference acoustic pressure 0 dB = 20 μ Pa

Data is valid under the following conditions

Cooling operation

Outdoor Ta: 35°C

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



3D119542

11 Sound data

11 - 5 Sound Pressure Spectrum Quiet Mode Level 3

REMQ5U

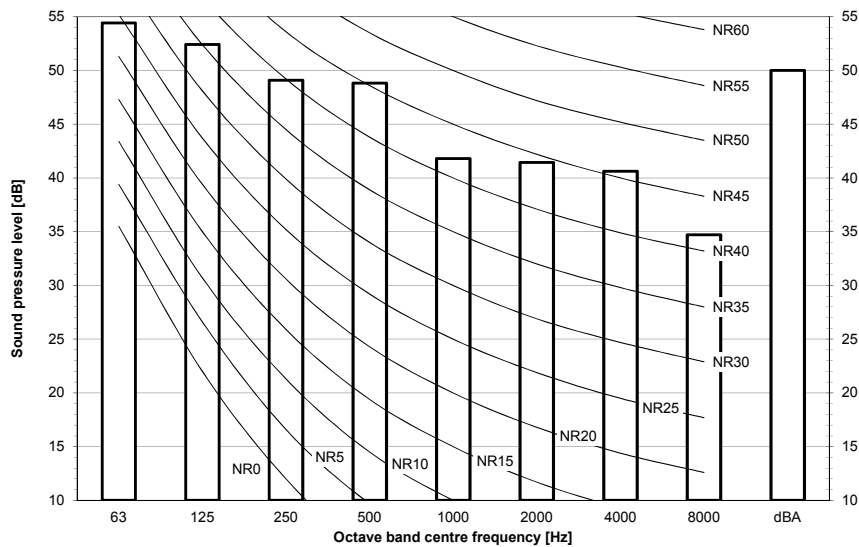
REYQ8-12U

RXYQ8-12U

RXYTQ8UYF

RYYQ8-12U

RYMQ8-12U



Notes

Data is valid at free field condition.

Data is valid at nominal operation condition.

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

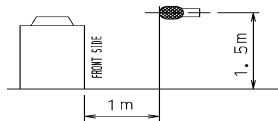
Reference acoustic pressure 0 dB = 20 μ Pa

Data is valid under the following conditions

Cooling operation

Outdoor Ta: 35°C

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



3D119537

REYQ14-16U

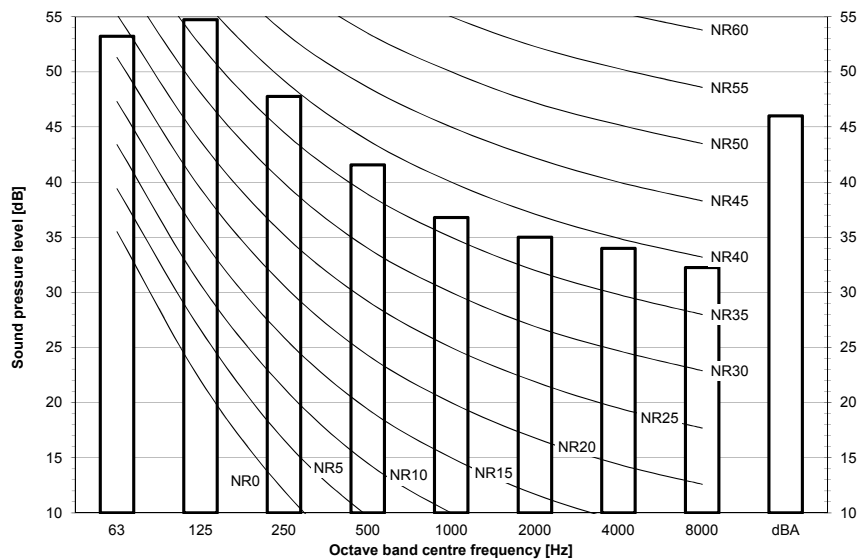
RXYQ14-16U

RXYQ14U-16U

RXYTQ14-16UYF

RYYQ14-16U

RYMQ14-16U



Notes

Data is valid at free field condition.

Data is valid at nominal operation condition.

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

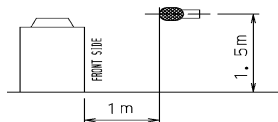
Reference acoustic pressure 0 dB = 20 μ Pa

Data is valid under the following conditions

Cooling operation

Outdoor Ta: 35°C

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

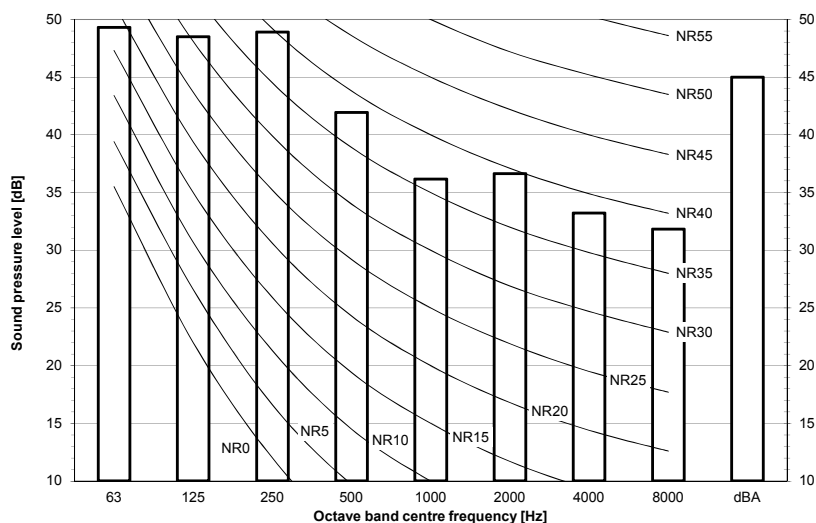


3D119540

11 Sound data

11 - 5 Sound Pressure Spectrum Quiet Mode Level 3

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



Notes

Data is valid at free field condition.

Data is valid at nominal operation condition.

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

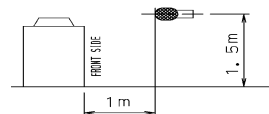
Reference acoustic pressure 0 dB = 20 μ Pa

Data is valid under the following conditions

Cooling operation

Outdoor Ta: 35°C

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



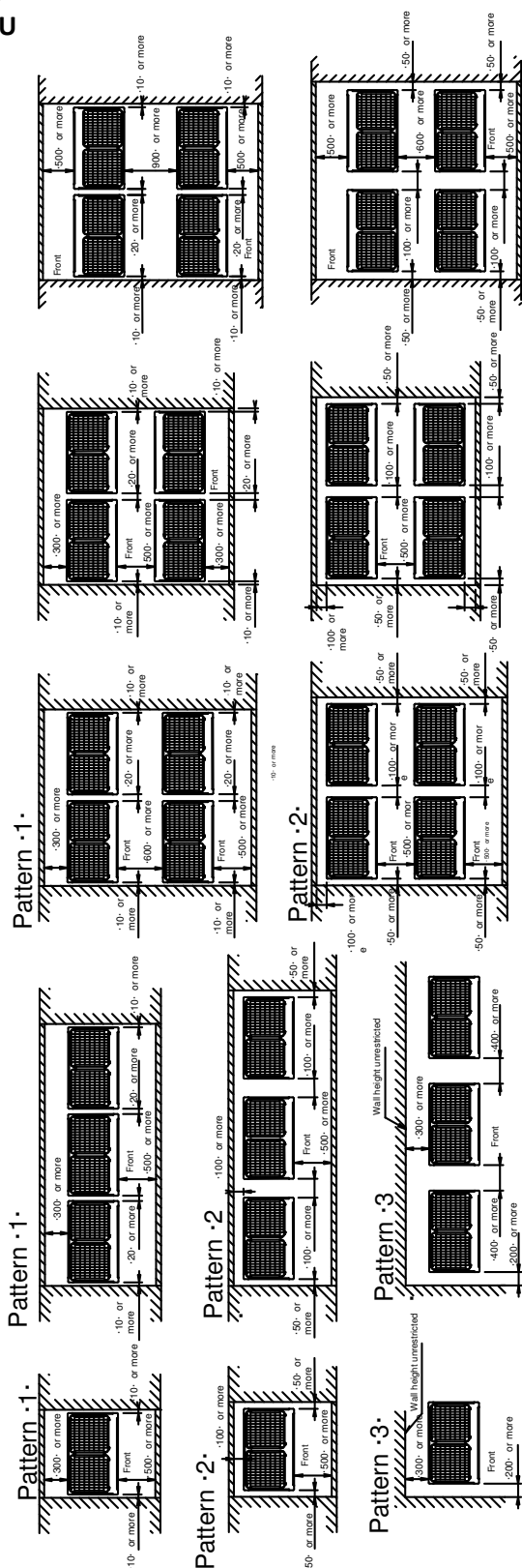
3D119543

12 Installation

12 - 1 Installation Method

REYQ-U
REMQ-U

For centralised group layout



Notes

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

Front: ·1500·mm

Suction side: ·500·mm

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:

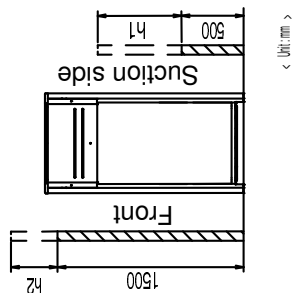
- suction side: service space + h1/2
- front side: service space + h2/2

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 or the air to circulate freely.

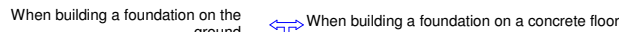
Provide sufficient space at the front to connect refrigerant piping (comfortably).

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



12 - 2 Fixation and Foundation of Units

12



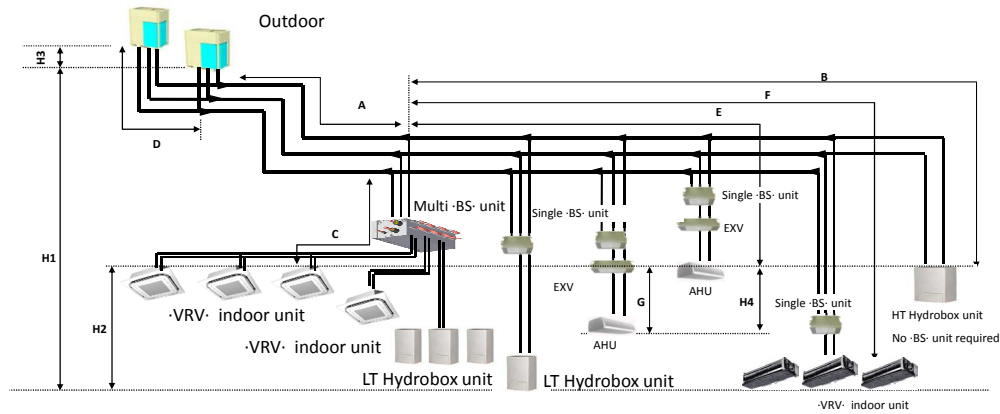
Notes

- 3D118459A**

12 Installation

12 - 3 Refrigerant Pipe Selection

REMQ-U
REYQ-U



3D088012D

REMQ-U
REYQ-U

VRV4 Heat recovery Piping restrictions

	Total		Allowed capacity				
	Capacity	Maximum indoor unit quantity (VRV, RA, AHU, Hydrobox) (*1)	VRV indoor unit	VRV indoor unit without BS unit Cooling only (*4)	HT Hydrobox unit	LT Hydrobox unit	Air handling unit (AHU)
VRV indoor units only	50 ~ 130%	64	50 ~ 130 %	0 ~ 50 %	-	-	-
VRV indoor unit + LT Hydrobox unit	50 ~ 130%	32	50 ~ 130 %	0 ~ 50 %	-	0 ~ 80%	-
VRV indoor unit + HT Hydrobox unit	50 ~ 200%	32	50 ~ 110 %	-	0 ~ 100 %	-	-
(VRV indoor unit + LT Hydrobox unit + HT Hydrobox unit) Where (VRV indoor unit + LT Hydrobox unit)	50 ~ 200%	32	50 ~ 110 %	-	0 ~ 100 %	0 ~ 80%	-
AHU only (pair + multi)	-	-	-	-	-	-	-
VRV indoor unit + AHU	50 ~ 110% (*5)	64	50 ~ 110 %	0 ~ 50 %	-	-	0 ~ 60 %

Legend
AHU Air handling unit

Notes

- Excluding BS units and including EXV kits.
- 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.
- Other combinations than mentioned in this combination table are prohibited.
- Cooling-only VRV indoor units cannot be combined with HT Hydrobox units.
- Restrictions regarding the air handling unit capacity.

Amount of units connectable to a BS unit

	BS1Q10 (*6)	BS1Q16 (*6)	BS1Q25 (*6)	Multi-BS per branch (*6)	Multi-BS when 2 branches are combined (*5) (*6)
VRV indoor unit	Maximum 6 units	Maximum 8 units	Maximum 8 units	Maximum 5 units	Maximum 5 units
Air handling unit (AHU)	Maximum 100 class	Maximum 160 class	Maximum 250 class	Maximum 140 class	Maximum 250 class
LT Hydrobox unit	Maximum 100 class = 1 x HXY080	Maximum 160 class = Maximum 2 x HXY080 Or maximum 1 x HXY125	Maximum 250 class = Maximum 3 x HXY080 Or maximum 2 x HXY125 Or HXY080 + HXY125	Maximum 140 class = Maximum 1 x HXY080 Or maximum 1 x HXY125	Maximum 250 class = Maximum 3 x HXY080 Or maximum 2 x HXY125 Or HXY080 + HXY125

Notes

- When combining 2 branches, the maximum piping length between the BS unit and the indoor unit is ≤ 20m. If the length of this piping is > 20m, increase the size of the liquid pipe.
- When using Hydrobox units, do not combine them with other types of units.

3D088012D

12 Installation

12 - 3 Refrigerant Pipe Selection

REMQ-U
REYQ-U

VRV4
Heat recovery
Piping restrictions

		Maximum piping length			Maximum height difference			Total piping length
		Longest pipe from the outdoor unit or the last multi-outdoor piping branch	Longest pipe after first branch	Longest pipe from the outdoor unit to the last multi-outdoor piping branch	Indoor-to-outdoor Outdoor unit higher than indoor unit / Indoor unit higher than outdoor unit	Indoor-to-indoor	Outdoor-to-outdoor	Piping length
		Actual / Equivalent	Actual	Actual / Equivalent				
		Maximum: (A+B, A+C, A+E, A+F)	Maximum: (B,C,E,F)	Maximum: (D)	Maximum: (H1)	Maximum: (H2)	Maximum: (H3)	
Single outdoor units and standard multi-outdoor-unit combinations > 20hp	VRV- indoor units only	165/190 m (*3)	40 m (*1)	10/13 m	50/40 m (*2)	15 m	5 m	1000 m
		120/165m (*3)	40 m (*1)		50/40 m (*2)	30m		1000 m
	Hydrobox unit	135/160 m (*3)	40 m		50/40 m	15m		300 m (*4)/600 m (*5)
	AHU (*6)	165/190 m (*3)	40 m		50/40 m			1000 m
Standard multi-outdoor-unit combinations ≤ 20hp and free multi-outdoor-unit combinations	VRV- indoor units only		40 m (*1)	10/13 m	50/40 m (*2)	15 m	5 m	500 m
			40 m		50/40 m			300 m (*4)/500 m (*5)
	Hydrobox unit	135/160 m (*3)	40 m		50/40 m			500 m
	AHU (*6)		40 m		50/40 m			500 m

	Maximum piping length	Maximum height difference
	EXV → AHU: G	EXV → AHU: H4
AHU (*6)	5 m	5 m

- Notes:
- If all conditions below are met, the limitation can be extended up to 90 m
 - In case of -BS1Q- units, the piping length between all indoor units and the nearest branch kit is ≤ 40-m.
 - In case of multi BS units, the piping length between all indoor units and the multi BS unit is ≤ 40-m.
 - It is required to size up the liquid piping between the first branch kit and the last.
 - In contrast to multi BS units, -BS1Q- units are not considered branch kits.
 - If the increased pipe size is larger than the pipe size of the main pipe, also increase the size of the main pipe.
 - When the piping size is increased, the piping length has to be counted as double.
 - The total piping length has to be within limitations.
 - The piping length difference between the nearest indoor unit to the outdoor unit and the farthest indoor unit to the outdoor unit is ≤ 40-m.
 - If all conditions below are met, the limitation can be extended up to 90 m
 - If the outdoor units are positioned higher than the indoor units:
 - Minimum connection ratio: 80%
 - Size up the liquid piping
 - Outdoor unit setting
 - For more information, refer to the service manual.
 - If the outdoor units are positioned lower than the indoor units:
 - No technical cooling
 - Size up the liquid piping
 - Outdoor unit setting
 - Minimum connection ratio

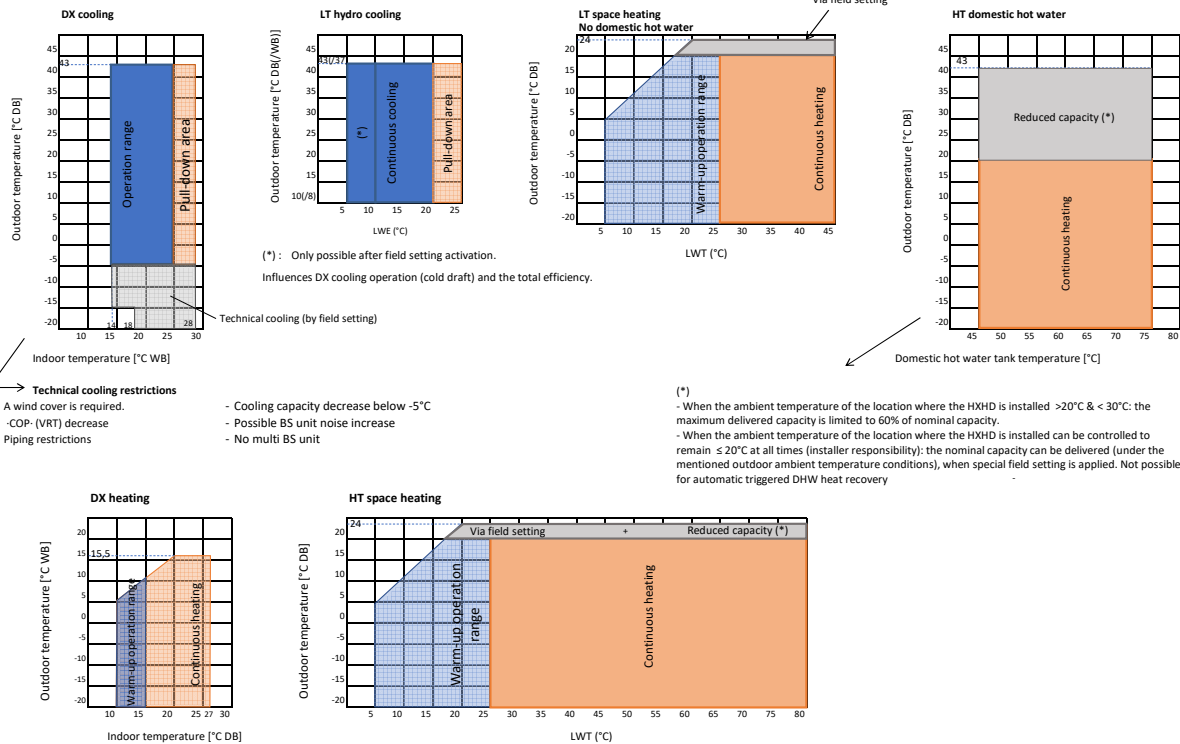
40~60m:	Minimum connection ratio: 80%
60~65m:	Minimum connection ratio: 90%
65~80m:	Minimum connection ratio: 100%
80~90m:	Minimum connection ratio: 110%
 - If the equivalent piping is > 90-m, size up the main liquid piping.
 - Outdoor unit ≤ 20hp-
 - Outdoor unit >20hp-
 - Mix of DX- units and AHU's
 - If there is no branch kit present in the system, the longest pipe after the multi -BS- unit has to be ≤ 40-m.

3D088012D

13 Operation range

13 - 1 Operation Range

REYQ-U REMQ-U



3D088014C

14 Appropriate Indoors

14 - 1 Appropriate Indoors

REYQ-U
REMQ5U

14

Recommended indoor units for ·REYQ*U* + REMQ5U*· outdoor units

-- HP	8	10	12	13	14	16	18	20
	4xFXMQ50	4xFXMQ63	6xFXMQ50	3xFXMQ50 3xFXMQ63	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 ·REYQ*U* + REMQ5U*· outdoor units

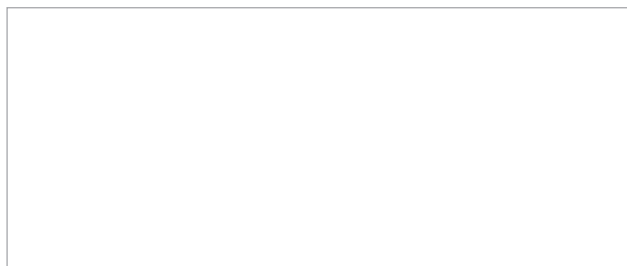
Covered by ·ENER LOT21·

FXFQ20-25-32-40-50-63-80-100-125
FXZQ15-20-25-32-40-50
FXCQ20-25-32-40-50-63-80-125
FXKQ25-32-40-63
FXDQ15-20-25-32-40-50-63
FXSQ15-20-25-32-40-50-63-80-100-125-140
FXMQ50-63-80-100-125-200-250
FXAQ15-20-25-32-40-50-63
FXHQ32-63-100
FXUQ71-100
FXNQ20-25-32-40-50-63
FXLQ20-25-32-40-50-63

Outside the scope of ·ENER LOT21·

EKEXV50-63-80-100-125-140-200-250-400-500 + EKEQM
HXY080-125
HXHD125-200
VKM50-80-100
CYVS100-150-200-250
CYVM100-150-200-250
CYVL100-150-200-250

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08/2022



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